SEQUENCE LISTING

<110> Salceda, Susana Macina, Roberto Hu, Ping Recipon, Herve Karra, Kalpana Cafferkey, Robert Sun, Yongming Liu, Chenghua <120> Compositions and Methods Relating to Breast Specific Genes and Proteins <130> DEX-0313 <150> 60/268,292 <151> 2001-02-13 <160> 295 <170> PatentIn version 3.1 <210> 1 591 <211> <212> DNA <213> Homo sapien

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atacctttat tgatgcttga	ttcccagtat tatttaaata gttgcccact ggagtgcagg	cctctaaagg tacgtagtat tttttctttt ggcgtcatct	taaccaggga gctacaaacc tttttttttg ttgactcact	tttttttat attgcagtta gagacagagc tgcaaccttc	300 360 420
atacetttat tgatgettga	ttcccagtat tatttaaata gttgcccact ggagtgcagg gcagattctc	cctctaaagg tacgtagtat tttttctttt ggcgtcatct ctgtgcctta	taaccaggga gctacaaacc tttttttttg ttgactcact cagcctccga	tttttttat attgcagtta gagacagagc tgcaaccttc gtttggctgg	300 360 420 480
atacetttat tgatgettga etegetetgt cacceagget etteetteeg tggggtgeag	ttcccagtat tatttaaata gttgcccact ggagtgcagg gcagattctc aagtttccca	cctctaaagg tacgtagtat tttttctttt ggcgtcatct ctgtgcctta cattttcagt	taaccaggga gctacaaacc tttttttttg ttgactcact cagcctccga gagaaattcc	tttttttat attgcagtta gagacagagc tgcaaccttc gtttggctgg tcaattggcc	300 360 420 480 540

<210> 172

<211> 75

<212> PRT

<213> Homo sapién

<400> 172

Met Gly Pro Arg Ser Arg Leu Trp Pro Ser Ser Pro Leu Trp Leu Val 1 $$ 5 $$ 10 $$ 15

Gln Pro Leu Cys Thr Pro Gly Val Phe Thr Pro Gly Ala Asp Ser Ser 20 25 30

His Cys Ser Ser Phe Leu Arg Glu Ile Thr Val Val Ile Ala Ala Gly 35 40 45

Ala Asn Arg Leu Gly Leu Val Ser Cys Ala Phe Gly Gln Leu Leu Thr 50 60

Arg Ser Ser Leu Lys Gln Trp Gly Gly Pro His 65 70 75

<210> 173

<211> 38

<212> PRT

<213> Homo sapien

<400> 173

Met Phe Pro Arg Leu Asp Ser Thr Ser Trp Pro Gln Gly Ile Leu Trp 1 5 10 15

Ala Trp Thr Pro Lys Pro Leu Arg Leu Glu Val Cys Glu Pro Pro Ser 20 25 30

Leu Pro Ser Leu Trp Ser 35

<210> 174

<211> 52

<212> PRT

<213> Homo sapien

<400> 174

Met Thr Leu Phe Ile Arg Cys Cys Thr Asn Tyr Gly Asn Leu Cys Gln 1 5 10 15

Tyr Phe Asn Val Cys Trp Ile Ile Thr Asp Ile Phe Ile Ile Leu Met

Ser Thr Asn Leu Phe Ile Leu Ile Ala Arg Val Ser Leu Gly Ser Lys

His His Leu Gly 50

<210> 175

<211> 37 <212> PRT <213> Homo sapien

<400> 175

Met Ala Gly Ser Gly Lys Val Pro Ile Thr Thr Thr Tyr Lys Pro Pro 5

Thr Asn Ser Asn Ala Ile His Leu Pro Thr Pro Ile Ile Arg Lys Ala

Gly Phe Thr Gly Ile 35

<210> 176

<211> 88

<212> PRT

<213> Homo sapien

<400> 176

Met Gly Leu Thr Leu Lys Ser Leu Cys Asp Ser Lys Met Asn Cys Gln 5

Ser Asn Val Pro Leu Met Lys Asp Pro Ile Thr Leu Gln His Val Cys 2.0 25

Ile Gln Arg Thr Tyr Leu Arg Leu Ser Phe Gly His Gly Gly Arg Leu

Leu Leu Lys Thr Tyr Gln Ser Pro Leu Trp Arg Ser Ala Asp Arg Pro

His Asp Leu Gly Asn Gly Leu Leu Val Ile Trp Asp Cys Leu Gly Leu 70 75

Cys Asn Gly Thr Trp Gly Gln Asn

85

<210> 177

<211> 61

<212> PRT

<213> Homo sapien

<400> 177

Met Asp His Lys Ser Ala Asn His Ser Ser Ala Leu Leu Lys Met Leu

Leu Ala Gly Gly Met Ser Leu Pro Glu Val Pro Glu Gly Leu Thr Pro 20 25

Thr Pro Ser Ser Gln Thr His Leu Ser Lys Gly Lys Gly Arg Asn Leu 4.0

Glu Lys Ser Tyr Phe His Asn His Ser Leu Arg Glu Pro 55

<210> 178

<211> 198 <212> PRT

<213> Homo sapien

<400> 178

Met Thr Pro Ile His Leu Ile Cys Ser Pro Ser His Glu Leu Gln Asp

Thr Thr His Pro Gln Pro Gln Arg Glu Cys Gln Arg Phe Ser Thr His 25

Gly Ala Gln Thr Thr Gln Cys Ala Thr His His His Pro Tyr Ile Ser 35 40

Gly Ala Ala Thr Arg Thr Tyr Leu Arg His Val Ala Pro Asp Tyr Ser 50 55

Ala Pro Leu Met Ala Pro Pro Thr Asn Thr Arg Leu Ala Pro Ala Ser 65 . 70

Leu Gln Pro Thr His Leu Arg Pro Pro Leu Ala Arg His Pro Leu Thr

Ala Asp Cys Arg Thr His Gln Leu Thr Asp Thr Arg Pro Leu His Pro 105 110

Arg Pro Ile Thr Ser Arg Thr Pro Gln Pro Leu Pro Ser His Thr His 115 120

Gly Leu His His Thr Arg Pro Pro His Thr Ala Thr Gly Cys Pro Tyr 135 130

Leu Ser Thr Ser Arg Pro Leu Pro Pro Leu His Thr Arg Ser Ile His 150 145

Pro Asp Asn Pro His Cys Thr Thr Pro His His Ser Pro Ser Lys Pro 170

Ser Thr Thr His Gln Gln Ser Pro Ala Pro Thr Pro Asn Lys Pro 185

His Pro Arg Arg Ala Ser 195

<210> 179

<211> 20

<212> PRT <213> Homo sapien

<400> 179

Met Ile Gly Ile Thr Trp Cys Phe Glu Leu Ile His Pro Thr Leu Glu

Leu Thr Ala Thr 2.0

<210> 180

<211> 107 <212> PRT

<213> Homo sapien

<400> 180

Met Gly Ala Ser Gly Pro Glu Arg Glu Asp Arg Asn Ser Glu Asn Gly

Val Glu Lys Lys Asn Val Lys Glu Leu His Glu Glu His Met Ala Glu 25

Lys Lys Glu Leu Gln Glu Glu Asn Gln Arg Leu Gln Gly Leu Pro Val 35 40 45

Ser Gly Ser Glu Glu Gly Arg Leu Pro Val Pro Ser Ala Arg Ser Ser 50 55

Thr Leu Arg Ala Ser Cys Arg Asn Glu Leu Gly Ser Leu Leu Pro Gly 70

Gly Glu Thr Ser Leu Gly Leu Lys Glu Gly His Arg Thr Lys Gly Ala

Arg Gly Gly His Arg Glu Asp Pro Gln Glu Lys

<210> 181

<211> 27

<212> PRT

<213> Homo sapien

<400> 181

Met Ser Thr His Ser Val His Ser Thr Gly Leu Pro Phe Tyr Lys Leu 10

Ser Leu Thr Ser Leu Ser Ser Met Thr Leu Val 2.0

<210> 182

<211> 40

<212> PRT <213> Homo sapien

<400> 182

Cys Phe Glu Lys Met Leu Asn Arg Leu Gly Ala Val Ala His Val Cys 1 5

Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Trp Ile Met Arg Ser Gly 25

Val Arg Asp Gln Pro Gly Gln His

<210> 183

<211> 26

<212> PRT

<213> Homo sapien

<400> 183

Met Arg Lys Gln Ala Phe Asp Leu Leu Glu Ser Thr Ala Gln Lys Ser

10

15

Leu Val Pro Ile Phe Glu Phe Pro Lys Gln 20

<210> 184 <211> 39

1

<212> PRT

<213> Homo sapien

<400> 184

Met Lys Glu Glu Gly Arg Leu Leu Thr Val Ala Glu Gly Arg Gln Gly 10

Pro Ser Cys Ser Ser His Ile Asn Ser Lys Lys Pro Ser Gln Gln Asn 25 20

Lys Ser Ile Phe Asn Ser Ser 35

<210> 185

<211> 76 <212> PRT

<213> Homo sapien

<400> 185

Met Val Glu Pro Ala Leu Ser Gly Cys Gln Gln Arg Lys Gly Gly Tyr

Ser Ser Glu Arg Gln Ser Gln Pro Thr Gln Gly Gln Gly Val Arg

Pro Gln Thr Tyr Ser Pro Ala Asp Leu Thr Val Arg Pro Ser Cys Ser 45 35 40

Gly Thr Gly Asn Ala Gln Ala Glu Ile Ala Leu Leu His Thr Tyr Asn 50 55

Thr Thr Leu Glu Asn Asn Leu Glu Trp Phe Thr Leu 70

<210> 186

<211> 35 <212> PRT <213> Homo sapien

<400> 186

Met Arg Gln Pro Cys Leu Ala Ile Pro Glu Ala Ser Ala Ser Leu Ile 1 5 10 15

Cys Arg Cys His Arg His Phe Thr Tyr Ser His Leu Met Ala Arg Phe
20 25 30

Leu Leu Leu 35

<210> 187

<211> 76

<212> PRT

<213> Homo sapien

<400> 187

Met Phe Phe Ala Leu Met Gly Ile Cys Pro Gly Thr Leu Pro Pro Gly 1 5 10 10 15

Pro Pro Leu Pro Arg Trp Pro Pro Pro Val Phe Cys Phe Phe Phe 20 25 30

Phe Phe Gly Phe Phe Phe Cys Cys Phe Thr Val Lys Leu Phe Ile Glu 35 40 45

Gln Ile Glu Asp Asn Asp Ile Cys Phe Tyr Tyr Arg Ser Leu Pro Ser 50 55 60

Ser Tyr Ile Ile Asp Thr Tyr Tyr Glu Thr Cys Ile 65 70 75

<210> 188

<211> 173

<212> PRT

<213> Homo sapien

<400> 188

Met Ile Gly Cys Ser Leu Leu Val Ala Cys Leu Cys Cys Leu Val Gln $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Ser Phe Arg Ala Met Phe Ser Cys Phe Ser Gly Leu Ser Leu Cys Leu 20 25 30

Met Leu Pro Leu Trp Cys Val Cys Pro Thr Val Cys Ala Phe Phe Cys 35 40 45

Gly Tyr Leu Leu Phe Phe Ser Leu Arg His Ala Ala Cys Gly Cys Leu 50 55

Leu Val Cys Leu Ser Cys Leu Ala Leu Pro Ser Gly Pro Ile Leu Ser 70

Phe Ser Phe Cys Leu Arg Val Val Ser Ser Val Arg Val Ala Cys Ala 90

Arg Ser Ala Ala Val Leu Leu Arg Gly Val Pro Pro Pro Ser Leu 100

Arg Thr Leu Ser Leu Ile Ala Ser Thr Ala Thr Arg Leu Ser Phe Val

Phe Leu Phe Ser Leu Pro Arg Gly Leu Leu Cys Val Gly Gly Ser Gly 135

Ser Val Leu Gly Ser Leu Val Arg Arg Ala Gln Ser Val Gly Leu Arg

Asp Phe Val Ser Val Leu Gln Val Val Leu Thr Cys Leu 165

<210> 189 <211> 29

<212> PRT

<213> Homo sapien

<400> 189

Met Val Leu Tyr Ser Glu Gly His Gln His Gly Pro His Leu Leu Asn 5

Met Glu Asn Gln Asn Leu Asn Glu Leu Pro Leu Lys Gly 20

<210> 190

<211> 122

<212> PRT

<213> Homo sapien

<400> 190

Phe Phe Ala Asp Glu Val Ser Arg Leu Ser Pro Gly Leu Glu Cys Ser 5 10

Gly Val Ile Ser Ala His Cys Asn Phe His Leu Leu Gly Ser Ser Ser

20 25 30

Ser Pro Ala Ser Ala Ser Gln Val Ala Glu Ile Thr Gly Ala Cys His 35 40

Pro Thr Trp Leu Ile Phe Val Ile Leu Val Glu Thr Gly Phe His His

Val Gly Gln Ala Asp Ala Leu Leu Thr Ser Gly Asp Pro Pro Phe Ser 75 70

Ala Pro Lys Val Leu Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro 85

Ala Asn Thr Phe Ala Leu Thr Thr Leu Gly Leu Leu Tyr Lys Ile Val 105 100

Met Ile Ala Met Glu Val Leu Pro Val Pro 120

<210> 191

<211> 11

<212> PRT

<213> Homo sapien

<400> 191

Met Trp Arg Ala Lys Gln Tyr Asp Leu Gln Thr

<210> 192 <211> 28 <212> PRT

<213> Homo sapien

<400> 192

Met Met Phe Ser Leu Ser Gln Lys Gly Ser Ala Ala Val Gln Ser Pro 1 5 10

Ser Thr Leu Ser Thr Pro Thr Phe Ser Ile Ser Tyr 20

<210> 193

<211> 48

<212> PRT

<213> Homo sapien

<400> 193

Met Asp Ser Gly Ala Arg Ala Gly Lys Pro Leu Leu Asp Pro Val Cys 1 5 10 15

Leu Pro Ala Trp Ser Leu Cys Leu Gln Pro Cys Leu Tyr Ser Ser Leu 20 25 30

Pro Pro His Gln Pro Pro Leu Ala Ser Pro Tyr Arg Leu Ser Lys Lys 35 40 45

<210> 194

<211> 1138

<212> PRT

<213> Homo sapien

<400> 194

Met Gly Asp Phe Ala Ala Pro Ala Ala Ala Ala Asn Gly Ser Ser Ile 1 5 10 15

Cys Ile Asn Ser Ser Leu Asn Ser Ser Leu Gly Gly Ala Gly Ile Gly 20 25 30

Val Asn Asn Thr Pro Asn Ser Thr Pro Ala Ala Pro Ser Ser Asn His 35 40 45

Pro Ala Ala Gly Gly Cys Gly Gly Ser Gly Gly Pro Gly Gly Gly Ser 50 55 60

Ala Ala Val Pro Lys His Ser Thr Val Val Glu Arg Leu Arg Gln Arg 65 70 75 80

Ile Glu Gly Cys Arg Arg His His Val Asn Cys Glu Asn Arg Tyr Gln
85 90 95

Gln Ala Gln Val Glu Gln Leu Glu Leu Glu Arg Arg Asp Thr Val Ser

Leu Tyr Gln Arg Thr Leu Glu Gln Arg Ala Lys Lys Ser Gly Ala Gly 115 120 125

Thr Gly Lys Gln Gln His Pro Ser Lys Pro Gln Gln Asp Ala Glu Ala 130 135 140

Ala Ser Ala Glu Gln Arg Asn His Thr Leu Ile Met Leu Gln Glu Thr 145 150 155 160

Val Lys Arg Lys Leu Glu Gly Ala Arg Ser Pro Leu Asn Gly Asp Gln
165 170 175

Gln Asn Gly Ala Cys Asp Gly Asn Phe Ser Pro Thr Ser Lys Arg Ile 180 185 190

Arg Lys Asp Ile Ser Ala Gly Met Glu Ala Ile Asn Asn Leu Pro Ser 195 200 205

Asn Met Pro Leu Pro Ser Ala Ser Pro Leu His Gln Leu Asp Leu Lys 210 215 220

Pro Ser Leu Pro Leu Gln Asn Ser Gly Thr His Thr Pro Gly Leu Leu 225 230 235 240

Glu Asp Leu Ser Lys Asn Gly Arg Leu Pro Glu Ile Lys Leu Pro Val 245 250 255

Asn Gly Cys Ser Asp Leu Glu Asp Ser Phe Thr Ile Leu Gln Ser Lys 260 265 270

Asp Leu Lys Gln Glu Pro Leu Asp Asp Pro Thr Cys Ile Asp Thr Ser 275 280 285

Glu Thr Ser Leu Ser Asn Gln Asn Lys Leu Phe Ser Asp Ile Asn Leu 290 295 300

Asn Asp Gln Glu Trp Gln Glu Leu Ile Asp Glu Leu Ala Asn Thr Val 305 310 310 315

Pro Glu Asp Asp Ile Gln Asp Leu Phe Asn Glu Asp Phe Glu Glu Lys 325 330 335

Lys Glu Pro Glu Phe Ser Gln Pro Ala Thr Glu Thr Pro Leu Ser Gln 340 345 350

Glu Ser Ala Ser Val Lys Ser Asp Pro Ser His Ser Pro Phe Ala His 355 360 365

Val Ser Met Gly Ser Pro Gln Ala Arg Pro Ser Ser Ser Gly Pro Pro 370 375 380

Phe Ser Thr Val Ser Thr Ala Thr Ser Leu Pro Ser Val Ala Ser Thr 385 390 395 400

Pro Ala Ala Pro As
n Pro Ala Ser Ser Pro Ala As
n Cys Ala Val Gl
n 405 410 415

Ser Pro Gln Thr Pro Asn Gln Ala His Thr Pro Gly Gln Ala Pro Pro 420 425 430

Arg Pro Gly Asn Gly Tyr Leu Leu Asn Pro Ala Ala Val Thr Val Ala 435 440 445

Gly Ser Ala Ser Gly Pro Val Ala Val Pro Ser Ser Asp Met Ser Pro 450 455 460

Ala Glu Gln Leu Lys Gln Met Ala Ala Gln Gln Gln Gln Arg Ala Lys 465 470 475 480

Leu Met Gl
n Gl<

Asn Gln Thr Ser Asn Trp Ser Pro Leu Gly Pro Pro Ser Ser Pro Tyr 515 520 525

Gly Ala Ala Phe Thr Ala Glu Lys Pro Asn Ser Pro Met Met Tyr Pro 530 535 540

Gln Ala Phe Asn Asn Gln Asn Pro Ile Val Pro Pro Met Ala Asn Asn 545 550 550 560

Leu Gln Lys Thr Thr Met Asn Asn Tyr Leu Pro Gln Asn His Met Asn 565 570 575

Met Ile Asn Gln Gln Pro Asn Asn Leu Gly Thr Asn Ser Leu Asn Lys 580 585 590

Gln His Asn Ile Leu Thr Tyr Gly Asn Thr Lys Pro Leu Thr His Phe 595 600 605

Asn Ala Asp Leu Ser Gln Arg Met Thr Pro Pro Val Ala Asn Pro Asn 610 620

Lys Asn Pro Leu Met Pro Tyr Ile Gln Gln Gln Gln Gln Gln Gln Gln

149 630 635 640 625 Gln Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Gln Leu 645 650 Gln Ala Pro Arg Ala His Leu Ser Glu Asp Gln Lys Arg Leu Leu Leu 665 660 Met Lys Gln Lys Gly Val Met Asn Gln Pro Met Ala Tyr Ala Ala Leu 680 Pro Ser His Gly Gln Glu Gln His Pro Val Gly Leu Pro Arg Thr Thr 690 Gly Pro Met Gln Ser Ser Val Pro Pro Gly Ser Gly Gly Met Val Ser Gly Ala Ser Pro Ala Gly Pro Gly Phe Leu Gly Ser Gln Pro Gln Ala Ala Ile Met Lys Gln Met Leu Ile Asp Gln Arg Ala Gln Leu Ile Glu 740 745 Gln Gln Lys Gln Gln Phe Leu Arg Glu Gln Arg Gln Gln Gln Gln Gln Gln Gln Gln Ile Leu Ala Glu Gln Gln Leu Gln Gln Ser His Leu Pro Arg Gln His Leu Gln Pro Gln Arg Asn Pro Tyr Pro Val Gln Gln 790 795 Val Asn Gln Phe Gln Gly Ser Pro Gln Asp Ile Ala Ala Val Arg Ser Gln Ala Ala Leu Gln Ser Met Arg Thr Ser Arg Leu Met Ala Gln Asn 820 825 Ala Gly Met Met Gly Ile Gly Pro Ser Gln Asn Pro Gly Thr Met Ala 835 Thr Ala Ala Ala Gln Ser Glu Met Gly Leu Ala Pro Tyr Ser Thr Thr 855 860 850

Pro Thr Ser Gln Pro Gly Met Tyr Asn Met Ser Thr Gly Met Thr Gln 865 870 875 880

Met Leu Gln His Pro Asn Gln Ser Gly Met Ser Ile Thr His Asn Gln 885 890 895

Ala Gl
n Gly Pro Arg Gl
n Pro Ala Ser Gly Gl
n Gly Val Gly Met Val 900 905 910

Ser Gly Phe Gly Gln Ser Met Leu Val Asn Ser Ala Ile Thr Gln Gln 915 920 925

His Pro Gln Met Lys Gly Pro Val Gly Gln Ala Leu Pro Arg Pro Gln 930 935 940

Ala Pro Pro Arg Leu Gln Ser Leu Met Gly Thr Val Gln Gln Gly Ala 945 950 955 960

Gln Ser Trp Gln Gln Arg Ser Leu Gln Gly Met Pro Gly Arg Thr Ser 965 970 975

Gly Glu Leu Gly Pro Phe Asn Asn Gly Ala Ser Tyr Pro Leu Gln Ala 980 985 990

Gly Gln Pro Arg Leu Thr Lys Gln His Phe Pro Gln Gly Leu Ser Gln 995 1000 1005

Ser Val Val Asp Ala Asn Thr Gly Thr Val Arg Thr Leu Asn Pro 1010 $$ 1015 $$ 1020

Ala Ala Met Gly Arg.Gln Met Met Pro Ser Leu Pro Gly Gln Gln 1025 1030 1035

Gly Thr Ser Gln Ala Arg Pro Met Val Met Ser Gly Leu Ser Gln 1040 1045 1050

Gly Val Pro Gly Met Pro Ala Phe Ser Gln Pro Pro Ala Gln Gln 1055 1060 1065

Gln Ile Pro Ser Gly Ser Phe Ala Pro Ser Ser Gln Ser Gln Ala 1070 1075 1080

Tyr Glu Arg Asn Ala Pro Gln Asp Val Ser Tyr Asn Tyr Ser Gly 1085 1090 1095

Asp Gly Ala Gly Gly Ser Phe Pro Gly Leu Pro Asp Gly Ala Asp 1100 1105 1110

Leu Val Asp Ser Ile Ile Lys Gly Gly Pro Gly Asp Glu Trp Met 1115 1120

Gln Glu Leu Asp Glu Leu Phe Gly Asn Pro

<210> 195 <211> 30 <212> PRT

<213> Homo sapien

<400> 195

Met Gln Leu Pro Leu Ser His Lys Arg Lys Lys Gln Tyr Ser Phe Tyr 10

Val Phe Asp Thr Asn Ile Lys His Asn Ser Val Leu Val His 20

<210> 196

<211> 46

<212> PRT

<213> Homo sapien

<400> 196

Met Lys Ile Tyr Phe Lys Ile Leu Leu Met Phe Leu Lys Lys Tyr Phe 10

Leu Arg Phe His Leu Met Lys Thr Met Lys Tyr Ser Val Phe Tyr Ser

Thr Thr Arg Gln Met Trp Ser Ile Pro Phe Val Phe Phe 35

<210> 197

<211> 18 <212> PRT

<213> Homo sapien

<400> 197

Met Leu Glu Ala Gly Ile Ser Phe Lys Val Arg Leu Gln Lys Trp Lys 5 10

Gln Ile

<210> 198

<211> 132

<212> PRT

<213> Homo sapien

<400> 198

Met Phe Tyr Ser Ile Leu Ala Met Leu Arg Asp Arg Gly Ala Leu Gln

Asp Leu Met Asn Met Leu Glu Leu Asp Ser Ser Gly His Leu Asp Gly 2.0 25

Pro Gly Gly Ala Ile Leu Lys Lys Leu Gln Gln Asp Ser Asn His Ala

Trp Phe Asn Pro Lys Asp Pro Ile Leu Tyr Leu Leu Glu Ala Ile Met 55

Val Leu Ser Asp Phe Gln His Asp Leu Leu Ala Cys Ser Met Glu Lys 70 75

Arg Ile Leu Gln Gln Gln Glu Leu Val Arg Ser Ile Leu Glu Pro

Asn Phe Arg Tyr Pro Trp Ser Ile Pro Phe Thr Leu Lys Pro Glu Leu 100 105

Leu Ala Pro Leu Gln Ser Glu Gly Leu Ala Ser Pro Met Ala Ala Gly 120

Gly Val Trp Pro 130

<210> 199

<211> 226 <212> PRT <213> Homo sapien

<400> 199

Pro Pro Lys His Leu Lys Ser Lys Phe Gly Gly Met Arg Lys Ala Asp

Asp Asp Leu Ile Leu Leu Gly Arg Ile Glu Glu Pro Phe Trp Gln 25

Asn Phe Lys His Leu Gln Glu Glu Val Phe Gln Lys Ile Lys Thr Leu 35 40

Ala Gln Leu Ser Lys Asp Val Gln Asp Val Met Phe Tyr Ser Ile Leu

Ala Met Leu Arg Asp Arg Gly Ala Leu Gln Asp Leu Met Asn Met Leu

Glu Leu Asp Ser Ser Gly His Leu Asp Gly Pro Gly Gly Ala Ile Leu 85 90

Lys Lys Leu Gln Gln Asp Ser Asn His Ala Trp Phe Asn Pro Lys Asp 105

Pro Ile Leu Tyr Leu Leu Glu Ala Ile Met Val Leu Ser Asp Phe Gln 120

His Asp Leu Leu Ala Cys Ser Met Glu Lys Arg Ile Leu Leu Gln Gln

Gln Glu Leu Val Arg Ser Ile Leu Glu Pro Asn Phe Arg Tyr Pro Trp

Ser Ile Pro Phe Thr Leu Lys Pro Glu Leu Leu Ala Pro Leu Gln Ser 165 170

Glu Gly Leu Ala Ile Thr Tyr Gly Leu Leu Glu Glu Cys Gly Leu Arg

Thr Glu Leu Asp Asn Pro Arg Ser Thr Trp Asp Val Glu Ala Lys Met 200 195

Pro Leu Ser Ala Leu Tyr Gly Thr Leu Ser Leu Leu Gln Gln Leu Ala 215

Glu Ala

<210> 200 <211> 37 <212> PRT

<213> Homo sapien

<400> 200

Met Ala Lys His Lys Gly Gly Tyr Gly Lys Tyr Trp Val Thr Leu Ile 5 10

Ile Gly Leu Asn Ala Thr Asn Asn Ile Ile Ile Val Leu Thr Tyr Phe

Phe Arg Leu Leu Ser 35

<210> 201 <211> 28 <212> PRT

<213> Homo sapien

<400> 201

Met Val His Lys Ser Tyr Phe Thr Thr Leu Ser Leu Val Ile Leu Gly 5 10

Val Trp Pro Cys Lys Ala Ser Ser Gln Arg Phe Cys 20

<210> 202

<211> 77

<212> PRT

<213> Homo sapien

<400> 202

Met Gly Ser Val Cys Val Cys Phe His Arg Ser Thr Thr Ser Glu Val

Ser Leu His Leu Cys Ile Phe Thr Ser Gln Gly Gln Gly Pro Gly Asn

Leu Arg Gly Ser His Ser Phe Ser Leu Pro Gln Thr Met Pro Leu Pro

Pro Ile Ser Leu Gly Gln Glu Ser Gly Phe Cys Phe Pro Tyr Phe Phe 55

Phe Pro Arg His Trp Glu Ala Ser Gly Glu Gln His Gln 70

<210> 203

<211> 70

<212> PRT

<213> Homo sapien

<400> 203

Met Gly Pro Pro Leu Pro Leu Gly Gly Trp Ser Ser Asp Leu Leu Ala

Gln Lys Val Leu Phe Phe His Leu Leu Cys Leu Asn Glu Ser Ser Trp

Thr Tyr Thr Pro Leu Ser Asp Glu Arg Ala Arg Leu Arg Arg Cys Ala

Gly His Leu Leu Arg Ile His Val Gly Ser Ala Ala Pro Gly Gly

Ser Thr Ser Ala Ala Thr

<210> 204

<211> 37

<212> PRT <213> Homo sapien

<400> 204

Met Ser Lys Lys Lys Asp Gln Asp Leu Cys Leu Lys Ile Glu Met His 10

Thr Ala Ala Ala Gln Lys Leu Arg Pro Ala Ser Lys Leu His Glu Ala 25

Leu Val Lys Thr Asp 35

<210> 205

<211> 87

<212> PRT

<213> Homo sapien

<400> 205

Met Pro Ser Val Ala Gln Gly Pro Val Pro Trp His Leu Gly Ser Arg

Ser Ala Val Ala Val Phe Glu Phe Leu Val Met Phe Glu Gln Arg Pro 2.0 25

Tyr Val Cys Ile Leu His Trp Ala Pro Gln Ile Thr Trp Pro Ile Leu

45

Arg Arg Gly Val Ser His Leu Gln Ser Pro Lys Ser Pro Leu Glu Val 50 55 60

40

Phe Leu Asn Glu Arg Thr Glu Ala Phe Leu Lys Ser Ser Val Gly Glu 65 70 75 80

Thr Val His His His Thr Gln 85

<210> 206

<211> 46

<212> PRT

<213> Homo sapien

35

<400> 206

Met Ser Pro Gly Thr Ala Met Ala Leu Gly Ala Pro Thr Leu Phe Phe 1 $$ 5 $$ 10 $$ 15

Phe Phe Phe Phe Phe Phe Tyr Asn Gln Pro Ile Arg Asp Leu Ser 20 25 30

Ile Asn Lys Pro Leu Phe Ile Ile Arg Asn Trp Leu Thr Gln 35 40 45

<210> 207

<211> 91

<212> PRT

<213> Homo sapien

<400> 207

Met Ser Ser Pro Gln Ser Ile Glu His Asn His Asp Ser His Glu Leu 1 5 10 15

Pro Thr Pro Pro Ala Ala Ser Ala Gln Arg Glu Ser Pro Leu Gln Val 20 25 30

Cys Leu Ile Ala Glu Pro Ile Phe Phe Leu Pro Gly Gln Gln Leu Leu 35 40 45

Ser Ser Met Ser Arg His Trp Cys Ser Leu Gly Trp Ala Pro Val Thr 50 55 60

Pro Met Glu Ile Leu Asp Gly Cys Tyr Arg Thr Gly Leu Asp Val Arg 65 70 75 80

Gly Leu Gly Asn Gly Ala Gln Glu Ser Ser Ser 85

<210> 208

<211> 87

<212> PRT

<213> Homo sapien

<400> 208

Met Cys Val Arg Asn Ser Met Phe Lys Lys Glu Ile Ile Gln Arg Val 5 10

Thr Asn His Gly Ser Val Gly His Trp Thr Lys Leu Gly Phe Trp Thr 20 25

Phe Leu Pro Asn Ile Asn Phe Ala Leu Ala Ser Val Tyr Thr His Thr 40

His Thr Thr Thr Asn Thr Thr Gln Thr Thr Phe Trp Ala Asn Thr Thr 55

Arg Arg Gln Arg Arg Leu Pro Gly Leu Lys Leu Gly Ser Leu Pro Ala 70 75

Pro Gln Phe Ser Gln Gln Leu 85

<210> 209

<211> 55 <212> PRT

<213> Homo sapien

<400> 209

Met Thr Cys Phe Arg Glu Cys Leu Leu Val Tyr Leu Tyr Ser Ile Cys

Leu Leu Asn Ser Leu His Lys Leu Glu Leu Leu Ser Arg Arg Leu Arg

Glu Cys Lys Tyr Val Thr His Lys Met His Trp Ser Met Val Asn Lys 35 40

Thr Asn His Phe Gly Leu Val 50

<210> 210

<211> 58

<212> PRT

<213> Homo sapien

<400> 210

Met Val Ile Phe Tyr Ser Ser Pro Ser Gln Asp Ser Ala Leu Ile Tyr

Tyr Ile Pro Phe Ile Leu Leu Tyr Arg Leu Leu Ser Glu Thr His Val 2.0 2.5

Gln Ile Arg Asp Lys Ile Leu Lys His Ile Thr Pro Ser Leu Val Phe 4.0

Ser Ile Gln Ile Leu Arg Asn Ser Cys Tyr 55

<210> 211

<211> 37

<212> PRT

<213> Homo sapien

<400> 211

Met Asn Leu Tyr Leu Lys Met Lys Thr Ile Pro Lys Lys Thr Cys Met

Ser Lys Thr Glu Leu Phe Leu Pro Phe Thr Pro Lys Tyr Leu Lys Leu

Asn Leu Ser His Phe 35

<210> 212

<211> 99

<212> PRT <213> Homo sapien

<400> 212

Phe Phe Phe Leu Arg Trp Ser Leu Ala Leu Ser Pro Arg Leu Glu

Cys Ser Gly Val Ile Ser Thr His Cys Asn Leu Cys Phe Pro Gly Ser 25

Ser Asp Ser Arg Ala Ser Pro Thr Phe Gln Val Ala Trp Ile Thr Gly

35

40

45

Val Arg His His Ser Trp Leu Ile Phe Val Leu Leu Val Glu Thr Gly 50 60

Phe His His Val Val Gln Ala Val Glu Leu Leu Thr Ser Arg Asp Pro 65 70 75 80

Pro Ala Ser Ala Ser Gln Ser Ala Ala Ile Ile Gly Val Asn His Cys 85 90 95

Ala Arg Pro

<210> 213

<211> 43

<212> PRT

<213> Homo sapien

<400> 213

Met Gln Glu Phe Thr Trp Leu Phe Glu Lys Glu Asn Phe Lys Val Ser
1 10 15

Gly Trp Thr Glu Ser His Glu Ala Arg Ser Leu Leu Thr Ala Arg Ser 20 25 30

Leu Glu Lys Gln Val Ser Gly Ser Phe Thr Ser

<210> 214

<211> 61

<212> PRT

<213> Homo sapien

<400> 214

Met Ala Val Asp Phe Tyr Asn Phe Val Thr Lys Leu Val Val Thr Thr 1 5 10 10

Gly Tyr Leu Arg Ile Ser Phe Leu Ala Tyr Lys Phe Phe Ser Phe Pro 20 25 30

Phe Leu Asp Ser Leu Ser Leu Cys Cys Pro Gly Leu Glu Cys Ser Gly 35 40

Val Ile Pro Ala His Tyr Asn Leu Tyr Leu Pro Gly Arg 50 60

<210> 215

<211> 127

<212> PRT

<213> Homo sapien

<400> 215

Ser Gln Asn Ile Phe Phe Gly Val Ala Ile Phe Phe Phe Ser Phe Phe

Arg Gln Ser Leu Ser Leu Val Ala Gln Ala Arg Val Gln Trp Arg Asp 25

Pro Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Leu Gly 40

Leu Ser Leu Pro Ser Ser Ala Gly Tyr Arg Arg Ala Pro Pro Pro Cys 5.0 , 55

Pro Ala Leu Leu Tyr Phe Ala Val Glu Thr Gly Phe His His Val Gly

Gln Ala Gly Leu Glu Leu Thr Ser Gly Asn Pro Ala Ala Ser Ala 90

Ser Gln Ser Ala Gly Ile Thr Gly Thr Ser His Cys Thr Gln Pro Tyr 105

Tyr His Lys Ser Ser Ala Cys Trp Tyr Leu Ile Arg Phe Tyr Leu 120

<210> 216

<211> 13

<212> PRT

<213> Homo sapien

<400> 216

Met Glu Cys Ser Ser Leu Ala Glu Phe Lys Pro Val Phe 5

<210> 217 <211> 100 <212> PRT <213> Homo sapien

<400> 217

Pro Gln Gln Thr Leu Lys Arg Ile Gln Gln Val Leu Ile Lys Cys Cys $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Ala Phe Tyr Leu Phe Leu Phe Phe Phe Phe Leu Arg Trp Ser Leu 20 25 30

Ala Leu Leu Pro Ser Leu Lys Cys Ser Gly Val Ile Ser Ala His Cys 35 40 45

Asn Leu Arg Leu Pro Gly Leu Gly Asp Ser Leu Ala Ser Ala Ser Arg 50 55 60

Val Ala Gly Met Thr Thr Gly Thr Cys His His Ala Gln Leu Ile Phe 65 70 75 80

Val Phe Leu Val Glu Thr Gly Phe Cys Val Ser Gln Asp Gly Leu Asp 85 90 95

Leu Leu Ile Ser

<210> 218

<211> 46

<212> PRT

<213> Homo sapien

<400> 218

Met Glu Gly Gly Glu Met Ser Thr Gln Val Glu Asn Arg Ser Glu Gly 1 5 10 15

Thr Ile Pro Ile Gln Thr Thr Cys Lys Ser His Asn Lys Ala Pro His 20 25 30

Cys Thr Glu Leu Arg His Lys Gln Arg Phe Pro Thr Asp Gly
35 40 45

<210> 219

<211> 72

<212> PRT

<213> Homo sapien

<400> 219

Ile Ser Phe Ile Phe Phe Ser Glu Ala Cys Gln Val Glu Val Arg Leu 1 5 10 15

Leu Leu Ala Tyr Asn Ser Ser Ala Arg Ile Pro Lys Cys Pro Trp Met

20 25 30

Glu Gly Glu Met Ser Pro Gln Val Glu Thr Ser Ile Glu Gly Thr 35 40 45

Ile Pro Phe Ser Lys Pro Val Lys Val Tyr Ile Met Pro Lys Pro Ala 50 55 60

Arg Arg Pro Lys Pro Ala Arg Arg 65 70

<210> 220

<211> 41

<212> PRT

<213> Homo sapien

<400> 220

Met Glu Cys Lys Val Ile Lys Cys Ser Cys Phe His Leu Glu Gly Cys 1 $$ 5 $$ 10 $$ 15

Gly Pro Glu Gly Lys Arg Ser Pro Lys Tyr Pro Pro Pro Trp Cys Ser 20 25 30

Ser Leu Cys Leu Val Pro Ala Arg Ala 35 40

<210> 221

<211> 30

<212> PRT

<213> Homo sapien

<400> 221

Met Asn Ser Phe Gly Tyr Met Thr Pro Ser Lys Phe Phe Lys Lys Glu 1 5 10 15

Ile Thr Phe Lys Thr Thr Tyr Ile Phe Cys Phe Cys Leu Arg 20 25 30

<210> 222

<211> 22

<212> PRT

<213> Homo sapien

<400> 222

Met Leu Gln Ile Gly His Leu Leu Ser Met His Ser Leu Asp Lys Asn 1 5 10 15

Ile Gly Gln Val Gly Met 20

<210> 223 <211> 18

<212> PRT

<213> Homo sapien

<400> 223

Met Ser Asp Arg Val Val Ala Leu Leu Glu Val Phe Phe Pro Phe Gln

Arg Glu

<210> 224

<211> 133

<212> PRT

<213> Homo sapien

<400> 224

Met Gly Asn Ser Ile Asp Thr Val Arg Tyr Gly Lys Glu Ser Asp Leu 10

Gly Asp Val Ser Glu Glu His Gly Glu Trp Asn Lys Glu Ser Ser Asn

Asn Glu Gln Asp Asn Ser Leu Leu Glu Gln Tyr Leu Thr Ser Val Gln

Gln Leu Glu Asp Ala Asp Glu Arg Thr Asn Phe Asp Thr Glu Thr Arg 50 55

Asp Ser Lys Leu His Ile Ala Cys Phe Pro Val Gln Leu Asp Thr Leu 70

Ser Asp Gly Ala Ser Val Asp Glu Ser His Gly Ile Ser Pro Pro Leu 85 90

Gln Gly Glu Ile Ser Gln Thr Gln Glu Asn Ser Lys Leu Asn Ala Glu

Val Gln Gly Gln Gln Pro Glu Cys Asp Ser Thr Phe Gln Leu Leu His 120 125

Val Gly Val Thr Val 130

<210> 225 <211> 50 <212> PRT

<213> Homo sapien

<400> 225

Met Arg Asn Ser Ser Pro Ile Leu Thr Pro Ala Leu Phe Ser Phe His 5

Met Tyr Ile Gly Pro Leu Ile Arg Ile Phe Lys Lys Phe Pro Arg Pro 20 25

Pro Asn Leu Thr Ile Asp Asp Pro Leu Ser Leu Phe Arg Asn Tyr 40

Ile Gly 50

<210> 226

<211> 43

<212> PRT

<213> Homo sapien

<400> 226

Met His Ser Phe Phe Leu Ser Met Leu Cys Pro Glu Ala Leu Arg Val

Leu Leu Lys Gln Ala Ala Gly Leu Leu Arg Glu Ile Lys Gly Phe Ile 25

Ser Thr Thr Arg Cys Gln Asn Leu His Phe Glu 35

<210> 227

<211> 99

<212> PRT

<213> Homo sapien

<400> 227

Met Leu Glu Arg Arg Ser Val Met Asp Arg Arg Ala Gly Asn Ser 10

Pro Pro Arg Ile Glu Lys Cys Leu Leu Gly Arg Glu Glu Gly Glu Ala 25

Gly Ala Gly Pro Ser Pro Gly Ser Leu Leu Gly Pro Gln Lys Ala Leu 40

Asn Gln Ala Pro Ser Leu Gln Gly Lys Pro Arg Pro Gln Pro Asp Asn

Leu Glu Gly Arg Lys Ser Gln Thr Leu Gly Leu Phe Phe Gly Gly Ile

Ile Gly Phe Phe Phe Phe Met Phe Leu Leu Glu Phe Cys Leu Leu Ala

Asn Ser Val

<210> 228

<211> 44 <212> PRT <213> Homo sapien

<400> 228

Met Lys Ser Ile Gln Leu Lys Phe Ser Tyr Ile Ile Glu Pro Gln Leu 10

Asn Gly Met Asn Gly Ile Gly Asn Leu Leu Glu Met Ile Phe Met Ile

Thr Phe Val Val Ile Pro Phe Ser Trp Leu Arg Phe

<210> 229

<211> 41

<212> PRT

<213> Homo sapien

<400> 229

Tyr Phe Pro Leu Gln Ile Trp Ile Ser Glu Asp Ser Asn Asn Ile Glu

Ala Val Asn Gln Trp Lys Glu Thr Val Ile Asn Pro Glu Lys Val Val 20 25

Ile Arg Trp His Lys Leu Asn Pro Ser 35

<210> 230

<211> 48

<212> PRT

<213> Homo sapien

<400> 230

Met Leu Lys Gly His Tyr Gln Tyr Gly Met Glu Asp Leu Ser Phe His 1 5 10 10 15

Thr Phe Ser Ser Ser Phe Leu Asn Phe Leu Leu Leu Phe Leu Leu Ser 20 25 30

Cys Met Val Ala Pro Phe Pro Phe Leu Leu Ser Val Pro Ser Lys Gln 35 40 45

<210> 231

<211> 108

<212> PRT

<213> Homo sapien

<400> 231

Phe Leu Lys Arg Gln Ser Ile Ser Leu Leu Pro Gln Leu Glu Cys Ser 1 5 10 15

Gly Thr Ile Ile Val His His Thr Leu Glu Leu Leu Gly Lys Gly Ser

Ser Leu Ala Ser Ala Ser Gln Val Ala Arg Tyr Thr Gly Met Cys Tyr 35 40 45

His Ala Trp Leu Ile Lys Lys Ile Phe Leu Glu Met Arg Ser Cys Cys 50 55 60

Val Ala Gln Ala Gly Leu Lys Leu Leu Gly Ser Asn Asn Pro Pro Thr 65 70 75 80

Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Ser Thr Ala 85 90 95

Pro Tyr Leu Gln Ile Leu Asn Gln Ala Ile Ala Ile 100 105

<210> 232

<211> 64

<212> PRT

<213> Homo sapien

<400> 232

Met Ser Pro Arg Ala Pro Phe Ala Pro Gly Cys Pro Gln Pro Leu Val

Val Phe Tyr Val Cys Phe Phe Phe Leu Ile Phe Cys Phe Val Lys

Lys His His Tyr Met Phe Leu Tyr Pro Arg Leu Lys Thr Phe Gly Asn 35 40

Leu Ile Ser Asn Ile Lys Ile Gln Ile Lys Thr His Ser Thr Ile Pro

<210> 233

<211> 35

<212> PRT

<213> Homo sapien

<400> 233

Met Cys Val Asn Ala Ser Thr Val Gly Gln Met Cys Glu Asn Glu Leu 1 5

Lys His Met Leu Arg Ile Lys Val Asn Arg Asn Phe Glu Arg Phe

Pro Leu Met 35

<210> 234 <211> 72

<212> PRT

<213> Homo sapien

<400> 234

Met Asn Ile Phe Pro Trp Ala Gly Gly Pro Trp Ser Leu Pro Gln Ala 5

Arg Tyr Arg Ala Pro Ala Cys Ala Pro Thr Asn His Gly Lys Gln Arg

Arg Pro Pro His Leu Lys Ser Trp Pro Val Val Ser Ser Val Phe 35 40

Leu Leu Ser Glu Gln Asn Val Leu Lys Leu Glu Leu Thr Lys Val Lys 55 , 60

Ser Ser Lys Thr Thr Tyr Ala Thr 65 70

<210> 235

<211> 1163

<212> PRT

<213> Homo sapien

<400> 235

Met Asp Arg Asn Arg Glu Ala Glu Met Glu Leu Arg Arg Gly Pro Ser 1 5 10 15

Pro Thr Arg Ala Gly Arg Gly His Glu Val Asp Gly Asp Lys Ala Thr 20 25 30

Cys His Thr Cys Cys Ile Cys Gly Lys Ser Phe Pro Phe Gln Ser Ser 35 40 45

Leu Ser Gln His Met Arg Lys His Thr Gly Glu Lys Pro Tyr Lys Cys 50 55 60

Pro Tyr Cys Asp His Arg Ala Ser Gln Lys Gly Asn Leu Lys Ile His 65 70 75 80

Ile Arg Ser His Arg Thr Gly Thr Leu Ile Gln Gly His Glu Pro Glu 85 90 95

Ala Gly Glu Ala Pro Leu Gly Glu Met Arg Ala Ser Glu Gly Leu Asp 100 105 110

Ala Cys Ala Ser Pro Thr Lys Ser Ala Ser Ala Cys Asn Arg Leu Leu 115 120 125

Asn Gly Ala Ser Gln Ala Asp Gly Ala Arg Val Leu Asn Gly Ala Ser 130 140

Gln Ala Asp Ser Gly Arg Val Leu Leu Arg Ser Ser Lys Lys Gly Ala 145 150 155 160

Glu Gly Ser Ala Cys Ala Pro Gly Glu Ala Lys Ala Ala Val Gln Cys 165 170 175

Ser Phe Cys Lys Ser Gln Phe Glu Arg Lys Lys Asp Leu Glu Leu His

Val His Gln Ala His Lys Pro Phe Lys Cys Arg Leu Cys Ser Tyr Ala 195 200 205

Thr Leu Arg Glu Glu Ser Leu Leu Ser His Ile Glu Arg Asp His Ile 210 215 220

Thr Ala Gln Gly Pro Gly Ser Gly Glu Ala Cys Val Glu Asn Gly Lys 225 230 235

Pro Glu Leu Ser Pro Gly Glu Phe Pro Cys Glu Val Cys Gly Gln Ala 245 250 255

Phe Ser Gln Thr Trp Phe Leu Lys Ala His Met Lys Lys His Arg Gly 260 265 270

Ser Phe Asp His Gly Cys His Ile Cys Gly Arg Arg Phe Lys Glu Pro 275 280 285

Trp Phe Leu Lys Asn His Met Lys Ala His Gly Pro Lys Thr Gly Ser 290 295 300

Lys Asn Arg Pro Lys Ser Glu Leu Asp Pro Ile Ala Thr Ile Asn Asn 305 310 315 320

Val Val Glu Glu Val Ile Val Ala Gly Leu Ser Leu Tyr Glu Val 325 330 335

Cys Ala Lys Cys Gly Asn Leu Phe Thr Asn Leu Asp Ser Leu Asn Ala 340 345 350

His Asn Ala Ile His Arg Arg Val Glu Ala Ser Arg Thr Arg Ala Pro 355 360 365

Ala Glu Glu Gly Ala Glu Gly Pro Ser Asp Thr Lys Gln Phe Phe Leu 370 375 380

Gln Cys Leu Asn Leu Arg Pro Ser Ala Ala Gly Asp Ser Cys Pro Gly 385 390 395 400

Thr Gln Ala Gly Arg Arg Val Ala Glu Leu Asp Pro Val Asn Ser Tyr 405 410 415

Gln Ala Trp Gln Leu Ala Thr Arg Gly Lys Val Ala Glu Pro Ala Glu

420

425

430

Tyr Leu Lys Tyr Gly Ala Trp Asp Glu Ala Leu Ala Gly Asp Val Ala 435 440 445

Phe Asp Lys Asp Arg Arg Glu Tyr Val Leu Val Ser Gln Glu Lys Arg 450 455 460

Lys Arg Glu Gln Asp Ala Pro Ala Ala Gln Gly Pro Pro Arg Lys Arg
465 470 475 480

Ala Ser Gly Pro Gly Asp Pro Ala Pro Ala Gly His Leu Asp Pro Arg
485 490 495

Ser Ala Ala Arg Pro Asn Arg Arg Ala Ala Ala Thr Thr Gly Gln Gly 500 505 510

Lys Ser Ser Glu Cys Phe Glu Cys Gly Lys Ile Phe Arg Thr Tyr His 515 520 525

Gln Met Val Leu His Ser Arg Val His Arg Arg Ala Arg Arg Glu Arg 530 535 540

Asp Ser Asp Gly Asp Arg Ala Ala Arg Ala Arg Cys Gly Ser Leu Ser 545 550 555 560

Glu Gly Asp Ser Ala Ser Gln Pro Ser Ser Pro Gly Ser Ala Cys Ala
565 570 575

Ala Ala Asp Ser Pro Gly Ser Gly Leu Ala Asp Glu Ala Ala Glu Asp 580 585 590

Ser Gly Glu Glu Gly Ala Pro Glu Pro Ala Pro Gly Gly Gln Pro Arg 595 600 605

Arg Cys Cys Phe Ser Glu Glu Val Thr Ser Thr Glu Leu Ser Ser Gly 610 620

Asp Gln Ser His Lys Met Gly Asp Asn Ala Ser Glu Arg Asp Thr Gly 625 630 635 640

Glu Ser Lys Ala Gly Ile Ala Ala Ser Val Ser Ile Leu Glu Asn Ser 645 650 655

Ser Arg Glu Thr Ser Arg Arg Gln Glu Gln His Arg Phe Ser Met Asp 660 665 670

Leu Lys Met Pro Ala Phe His Pro Lys Gln Glu Val Pro Val Pro Gly 675 680 685

Asp Gly Val Glu Phe Pro Ser Ser Thr Gly Ala Glu Gly Gln Thr Gly 690 695 700

His Pro Ala Glu Lys Leu Ser Asp Leu His Asn Lys Glu His Ser Gly 705 710 715 720

Gly Gly Lys Arg Ala Leu Ala Pro Asp Leu Met Pro Leu Asp Leu Ser 725 730 735

Ala Arg Ser Thr Arg Asp Asp Pro Ser Asn Lys Glu Thr Ala Ser Ser 740 750

Leu Gln Ala Ala Leu Val Val His Pro Cys Pro Tyr Cys Ser His Lys 755 760 765

Thr Tyr Tyr Pro Glu Val Leu Trp Met His Lys Arg Ile Trp His Arg 770 775 780

Val Ser Cys Asn Ser Val Ala Pro Pro Trp Ile Gln Pro Asn Gly Tyr 785 790 795 800

Lys Ser Ile Arg Ser Asn Leu Val Phe Leu Ser Arg Ser Gly Arg Thr 805 810 815

Gly Pro Pro Ala Leu Gly Gly Lys Glu Cys Gln Pro Leu Leu Leu 820 825 830

Ala Arg Phe Thr Arg Thr Gln Val Pro Gly Gly Met Pro Gly Ser Lys 835 840 845

Ser Gly Ser Ser Pro Leu Gly Val Val Thr Lys Ala Ala Ser Met Pro 850 855 860

Lys Asn Lys Glu Ser His Ser Gly Gly Pro Cys Ala Leu Trp Ala Pro 865 870 875 880

Gly Pro Asp Gly Tyr Arg Gln Thr Lys Pro Cys His Gly Gln Glu Pro 885 890 895

His Gly Ala Ala Thr Gln Gly Pro Leu Ala Lys Pro Arg Gln Glu Ala 900 905 910

Ser Ser Lys Pro Val Pro Ala Pro Gly Gly Gly Gly Phe Ser Arg Ser 915 920 925

Ala Thr Pro Thr Pro Thr Val Ile Ala Arg Ala Gly Ala Gln Pro Ser 930 935 940

Ala Asn Ser Lys Pro Val Glu Lys Phe Gly Val Pro Pro Ala Gly Ala 945 950 955 960

Gly Phe Ala Pro Thr Asn Lys His Ser Ala Pro Asp Ser Leu Lys Ala 965 970 975

Lys Phe Ser Ala Gln Pro Gln Gly Pro Pro Pro Ala Lys Gly Glu Gly 980 985 990

Gly Ala Pro Pro Leu Pro Pro Arg Glu Pro Pro Ser Lys Ala Ala Gln 995 1000 1005

Glu Leu Arg Thr Leu Ala Thr Cys Ala Ala Gly Ser Arg Gly Asp 1010 1015 1020

Ala Ala Leu Gln Ala Gln Pro Gly Val Ala Gly Ala Pro Pro Val 1025 1030 1035

Leu His Ser Ile Lys Gln Glu Pro Val Ala Glu Gly His Glu Lys 1040 1045 1050

Arg Leu Asp Ile Leu Asn Ile Phe Lys Thr Tyr Ile Pro Lys Asp 1055 1060 1065

Phe Ala Thr Leu Tyr Gln Gly Trp Gly Val Ser Gly Pro Gly Leu 1070 1075 1080

Glu His Arg Gly Thr Leu Arg Thr Gln Ala Arg Pro Gly Glu Phe 1085 1090 1095

Val Cys Ile Glu Cys Gly Lys Ser Phe His Gln Pro Gly His Leu 1100 1105 1110

Arg Ala His Met Arg Ala His Ser Val Val Phe Glu Ser Asp Gly 1115 1120 1125

Pro Arg Gly Ser Glu Val His Thr Thr Ser Ala Asp Ala Pro Lys 1135 1130

Gln Gly Arg Asp His Ser Asn Thr Gly Thr Val Gln Thr Val Pro 1145 1150 1155

Leu Arg Lys Gly Thr 1160

<210> 236

<211> 55

<212> PRT

<213> Homo sapien

<400> 236

Met Cys Val Phe Cys Gly Phe Phe Cys Ser Arg Phe Val Arg Glu Met

Trp Gly Asn Phe Gly Pro Lys Thr Asn Phe Thr Pro Gly Thr Pro Phe 25

Cys Pro Trp Leu Ser Pro Asn Leu Phe Cys Leu Val Val Trp Phe 35 40

Tyr Arg Leu Leu Ile Phe Tyr

<210> 237 <211> 156 <212> PRT <213> Homo sapien

<400> 237

Met Pro Met Glu Gly His Thr Leu Cys Met Arg Ile Arg Gly Ser Trp

Leu Ala Ala Arg Leu Pro Val Met Pro Phe Glu Gly Asp Val Gly Pro

Trp Val Arg Met Lys Val Phe Ile Cys His Ser Ser Pro Gln Val 35 40

Ala Ile His Leu Gly Gly Gly Arg Glu Gly Ser Ala Leu Ala Ile Val 50 55

Tyr Pro Ala Ser Leu Arg Phe Ile Asp Leu His Lys Arg Leu Cys Ser

Gly Lys Gly Arg Gly Pro Gln Lys Gly Ala Trp Gln Asp Arg Trp Met 85 90

Leu Tyr Gly His Met Glu Ile Thr Pro Ser Ser Leu Ala Pro Ala Ser

Ala Ser Arg Pro Leu His Gly Val Arg Cys Phe Cys Ala Cys Cys Pro 115 120

Thr Ser Leu His Ser Arg Ala Leu Ile Asn His Phe Asp Pro Pro Leu 130 135

Ala Glu Gly Ser Pro Leu Tyr Arg Val Gln Ser Leu 150

<210> 238 <211> 86

<212> PRT

<213> Homo sapien

<400> 238

Met Met Asn Phe Leu Cys Leu Asn Phe Arg Asp Ile Trp Cys Asp Phe 5 10

His Leu Tyr Leu Met Leu Pro Leu Leu Pro Ser Leu Leu Asn Thr Ser

Lys Asn Ser Glu His Ile Leu Ile Pro Pro Val Phe Tyr Phe Tyr Asp 35 40

Leu Asp Ile Leu His His Lys Ile Pro Pro Asn Trp Asp Tyr Val Phe

Glu Val Ile His Phe Thr Ile Ile Thr Thr Ile Thr Ile Ile Phe Ile 75

Val Cys Phe Val Pro Gly 85

<210> 239

<211> 289

<212> PRT

<213> Homo sapien

<400> 239

Ala Asp Leu Ser Phe Ile Glu Asp Thr Val Ala Phe Pro Glu Lys Glu 1 5 10 15

Glu Asp Glu Glu Glu Glu Glu Gly Val Glu Trp Gly Tyr Glu Glu
20 25 30

Gly Val Glu Trp Gly Leu Val Phe Pro Asp Ala Asn Gly Glu Tyr Gln 35 40 45

Ser Pro Ile Asn Leu Asn Ser Arg Glu Ala Arg Tyr Asp Pro Ser Leu 50 55 60

Leu Asp Val Arg Leu Ser Pro Asn Tyr Val Val Cys Arg Asp Cys Glu 65 70 75 80

Val Thr Asn Asp Gly His Thr Ile Gln Val Ile Leu Lys Ser Lys Ser 85 90 95

Val Leu Ser Gly Gly Pro Leu Pro Gln Gly His Glu Phe Glu Leu Tyr
100 105 110

Glu Val Arg Phe His Trp Gly Arg Glu Asn Gln Arg Gly Ser Glu His 115 120 125

Thr Val Asn Phe Lys Ala Phe Pro Met Glu Leu His Leu Ile His Trp 130 135 140

Asn Ser Thr Leu Phe Gly Ser Ile Asp Glu Ala Val Gly Lys Pro His 145 150 155 160

Gly Ile Ala Ile Ile Ala Leu Phe Val Gln Ile Gly Lys Glu His Val

Gly Leu Lys Ala Val Thr Glu Ile Leu Gln Asp Ile Gln Tyr Lys Gly 180 185 190

Lys Ser Lys Thr Ile Pro Cys Phe Asn Pro Asn Thr Leu Leu Pro Asp 195 200 205

Pro Leu Leu Arg Asp Tyr Trp Val Tyr Glu Gly Ser Leu Thr Ile Pro 210 215 220

Pro Cys Ser Glu Gly Val Thr Trp Ile Leu Phe Arg Tyr Pro Leu Thr 225 230 235 235

Ile Ser Gln Leu Gln Ile Glu Glu Phe Arg Arg Leu Arg Thr His Val
245 250 255

Lys Gly Ala Glu Leu Val Glu Gly Cys Asp Gly Ile Leu Gly Asp Asn $260 \hspace{1.5cm} 265 \hspace{1.5cm} 270 \hspace{1.5cm}$

Phe Arg Pro Thr Gln Pro Leu Ser Asp Arg Val Ile Arg Ala Ala Phe 275 280 285

Gln

<210> 240

<211> 59

<212> PRT

<213> Homo sapien

<400> 240

Met Cys Gln Ile Asp Arg Gln Asp Leu Val Leu Leu Lys Leu Val Ile 1 5 10 15

Tyr Cys Ser Arg His Leu Lys Gly Trp Arg Arg Ser Glu His Tyr Val 20 25 30

Pro Ala Arg Ala Ser Ile Thr Leu Arg Arg Ser Thr Ser His Leu Val 35 40 45

Ala Arg Ser Pro Asn Met Ser Ser Ser Gly Val50

<210> 241

<211> 41

<212> PRT

<213> Homo sapien

<400> 241

Met Leu Leu Asn Gly Leu His Asn Pro Ala Leu Lys His Leu Arg Asp 1 5 10 15

Leu Cys Lys Thr Phe Pro Trp Ser Leu Cys Phe Ser His Ile Asn Gln 20 25 30

Leu Ala Tyr Phe Ser His Ser Pro Ser 35

<210> 242

<211> 80 <212> PRT <213> Homo sapien

<400> 242

. . %. - -

Met Asn Cys Leu Tyr Pro Ser Pro Met Cys Phe Tyr Arg Ser Cys Leu

Val His Phe Val Ala Asp Leu Leu Gly Asp Phe Thr Glu Gly Lys Val 25

Ser Ser Lys Leu Tyr Asp Asp Phe Met Leu Ile Asp Leu Leu Ser Ser 40

Gly Ser Trp Glu Thr His Ser Ala Ile Ser Leu Leu Ser Tyr Phe Ser

Tyr Asp Ala Gln Pro Pro Lys Ala Thr Arg Glu Gln Tyr Arg Val Pro 70 65

<210> 243

<211> 45 <212> PRT <213> Homo sapien

<400> 243

Glu Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala

Trp Asn Glu Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr

Ile Asn Lys Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile 40

<210> 244

<211> 24

<212> PRT

<213> Homo sapien

<400> 244

Met Cys Leu Asn Phe Ser Phe Asn Tyr Leu Ile Pro Phe Ala Gln Glu 10

Ile Thr Ile Ser Leu Phe Phe Phe 20

<210> 245

<211> 69

<212> PRT

<213> Homo sapien

<400> 245

Leu Phe Phe Gln Leu Phe Asp Thr Phe Cys Pro Arg Asp Tyr Tyr Leu 1 5 10 15

Ser Leu Phe Phe Phe Ser Phe Lys Thr Glu Cys Cys Ser Val Thr Glu 20 25 30

Val Gly Val Gln Trp His Asn Ser Ala Ser Leu Gln Pro Leu Pro Pro 35 40 45

Arg Leu Lys Arg Ser Ser His Leu Ser Leu Pro Ser Ser Trp Asp His 50 60

Arg His Ile Pro Pro

<210> 246

<211> 39

<212> PRT

<213> Homo sapien

<400> 246

Met Glu Thr Lys His His Ser His Lys Lys Ser Asn Ser Ile Leu Asn 1 5 10 15

His Trp Lys Val Thr Ile Pro Leu Tyr Ser Phe Pro Lys Leu Phe Val 20 25 30

Ala Lys Ser Tyr Arg Lys Glu 35

<210> 247

<211> 93

<212> PRT

<213> Homo sapien

<400> 247

Leu Leu Gln Ala Leu Lys Lys Ile Phe Phe Leu Asn Ser Leu Thr Leu 5

Ser Pro Arg Leu Glu Ala Ser Asn Val Ile Ser Ala His Cys Asn Leu

His Ser Arg Val Ala Gly Ile Thr Asp Met His His Pro Gln Leu 40

Ile Phe Val Phe Leu Val Glu Thr Gly Phe Arg His Val Gly Gln Ala 55

Gly Leu Ala Leu Leu Ala Leu Arg Asp Pro Pro Pro Leu Ala Phe Gln

Ser Ala Gly Ile Thr Gly Val Ser His Cys Thr Trp Pro 85

<210> 248

<211> 51

<212> PRT <213> Homo sapien

<400> 248

Met Phe Phe Phe Phe Val Phe Phe Phe Leu Phe Ala Arg Phe Ser

Arg Asn Val Gly Asp Leu Trp Ala Gly Lys Pro Phe Pro Pro Gly His 25

Val Leu Pro Arg Tyr Pro His Leu Phe Phe Phe Phe Phe Phe Cys 40

Phe Ile Thr 50

<210> 249

<211> 62

<212> PRT

<213> Homo sapien

<400> 249

Met Asn Phe Thr Leu Ala Ile Phe His Tyr Phe Ser Leu Ser Gln Met 10 5

Ser Val Leu Met Arg Gln Leu Ala Leu Thr Gly Ala Thr Leu Met Cys

20

25

30

His Leu Pro Thr Phe Asn Phe Trp Val Lys Ala Glu Arg Glu Lys Leu 40

Met Asp Phe Ser Phe Ser Arg Arg Asp Lys Asn Gln Leu His

<210> 250 <211> 190

<212> PRT

<213> Homo sapien

<400> 250

Met Lys Leu Gln Leu Arg Ile Lys Ser Leu Thr Gln Asn Arg Thr Thr

Thr Trp Lys Leu Asn Asn Leu Leu Leu Asn Asp Tyr Trp Val Asn Lys 2.0 25

Lys Ile Lys Ala Glu Ile Asn Lys Phe Phe Glu Thr Ile Glu Asn Lys 35 40

Asp Thr Met Tyr Gln Asn Thr Ala Lys Ala Val Phe Arg Gly Lys Phe 50 5.5

Ile Ala Leu Asn Thr His Ile Arg Asn Trp Glu Ile Pro Lys Ile Asn

Val Leu Thr Ser Gln Leu Lys Glu Leu Glu Lys Arg Glu Gln Thr His

Ser Lys Gln Glu Ile Thr Lys Ile Ile Ala Glu Leu Lys Glu Ile Glu

Thr Gln Lys Ala Leu Gln Lys Ile Ser Asp Ser Arg Ser Trp Phe Phe 120

Glu Lys Ile Asn Lys Thr Asp Arg Leu Leu Ala Arg Ile Ile Lys Lys 135

Lys Arg Glu Lys Asn Gln Ile Asp Thr Ile Lys Asn Asp Lys Gly Asp 145 150 155

Ile Thr Thr Asn Pro Thr Glu Ile Gln Thr Ala Ile Arg Glu Cys Tyr

165

170

175

Gln His Leu Tyr Ile Asn Lys Leu Glu Asn Leu Glu Glu Ile 185

<210> 251

<211> 132

<212> PRT

<213> Homo sapien

<400> 251

Met Pro Val Leu Ser Pro Pro Leu His Met Pro Tyr Pro Ala Ala Lys 10

Leu Asp Ser Val Leu Pro Asp Lys Thr Trp Tyr Trp His Leu Tyr Ala 25

Ser Val Cys Leu Pro Ser Thr Phe Lys Lys Pro Leu Gln Ser Ala Asp 35

Thr Lys Lys Gln Ser His Thr Cys Ser Lys Ser Ala Cys Phe Pro Leu 50 55

Ile Ser Ala Ser Cys Gln Arg His Cys Leu Thr Ser Ser Leu Leu 70

Ser Ile Cys Val Pro His Lys Thr Leu Arg Asp Ser Ala Ser Tyr Val 90

Tyr Gly Leu Trp Val Phe Ile Ser Thr Val Pro Cys Leu Thr Leu Ser

Pro Cys Gly Glu Tyr Thr His Pro Thr Pro Thr Val Pro Cys Thr Ser 115 120 125

Val Ala Ala Gln 130

<210> 252

<211> 30 <212> PRT <213> Homo sapien

<400> 252

Met Gln Phe Arg Ile His Ala Ser Phe Ser Val Lys Trp Arg Ser Tyr

Ser Phe Asn Ser Glu Asn Ser Gln Leu Asn Lys Gln Pro Leu 25

<210> 253 <211> 49

<212> PRT

<213> Homo sapien

<400> 253

Met Arg Val Val Trp Gly Trp Arg Cys Gly Cys Val Gly Val Leu Val 10 5

Leu Val Val Gly Gly Cys Val Glu Trp Ala Val Val Phe Gly Val Cys 20

Val Gly Cys Val Val Trp Val Gly Arg Trp Trp Cys Asp Val Val

Trp

<210> 254

<211> 54

<212> PRT

<213> Homo sapien

<400> 254

Met Lys Lys Ser Val Ser Cys Cys Ser Ser Leu Trp Val Ser Leu Ser 10 5

Lys Asp Glu Asn Ala Glu Val Gly Arg Gly Asp Ser Leu Leu Gly Thr 20

Gly Arg Cys Gly Leu Pro Ile Thr Arg Leu Lys Leu Thr Ser Leu Pro 40

Ser Ser Pro Thr Val Val 50

<210> 255

<211> 1088 <212> PRT <213> Homo sapien

<400> 255

Asp Asp Ser Leu Ile Ser Ser Ala Thr Ala Ile Met Glu Ala Val Val 1 5 10 15

Arg Glu Trp Ile Leu Leu Glu Lys Gly Ser Ile Glu Ser Leu Arg Thr
20 25 30

Phe Leu Leu Thr Tyr Val Leu Gln Arg Pro Asn Leu Gln Lys Tyr Val 35 40 45

Arg Glu Gln Ile Leu Leu Ala Val Ala Val Ile Val Lys Arg Gly Ser 50 60

Leu Asp Lys Ser Ile Asp Cys Lys Ser Ile Phe His Glu Val Ser Gln 65 70 75 80

Leu Ile Ser Ser Gly Asn Pro Thr Val Gln Thr Leu Ala Cys Ser Ile 85 . 90 95

Leu Thr Ala Leu Leu Ser Glu Phe Ser Ser Ser Ser Lys Thr Ser Asn 100 105 110

Ile Gly Leu Ser Met Glu Phe His Gly Asn Cys Lys Arg Val Phe Gln 115 120 125

Glu Glu Asp Leu Arg Gln Ile Phe Met Leu Thr Val Glu Val Leu Gln 130 135 140

Glu Phe Ser Arg Arg Glu Asn Leu Asn Ala Gln Met Ser Ser Val Phe 145 150 155 160

Gln Arg Tyr Leu Ala Leu Ala Asn Gln Val Leu Ser Trp Asn Phe Leu 165 170 175

Pro Pro Asn Leu Gly Arg His Tyr Ile Ala Met Phe Glu Ser Ser Gln 180 185 190

Asn Val Leu Leu Lys Pro Thr Glu Ser Leu Arg Glu Thr Leu Leu Asp 195 200 205

Ser Arg Val Met Glu Leu Phe Phe Thr Val His Arg Lys Ile Arg Glu 210 215 220

His Ser Asp Met Ala Gln Asp Ser Leu Gln Cys Leu Ala Gln Leu Ala 225 230 230 240

Ser Leu His Gly Pro Ile Phe Pro Asp Glu Gly Ser Gln Val Asp Tyr 245 250 255

Leu Ala His Phe Ile Glu Gly Leu Leu Asn Thr Ile Asn Gly Ile Glu 260 265 270

Ile Glu Asp Ser Glu Ala Val Gly Ile Ser Ser Ile Ile Ser Asn Leu 275 280 285

Ile Thr Val Phe Pro Arg Asn Val Leu Thr Ala Ile Pro Ser Glu Leu 290 295 300

Phe Ser Ser Phe Val Asn Cys Leu Thr His Leu Thr Cys Ser Phe Gly 305 310 315 320

Arg Ser Ala Ala Leu Glu Glu Val Leu Asp Lys Asp Asp Met Val Tyr 325 330 335

Met Glu Ala Tyr Asp Lys Leu Leu Glu Ser Trp Leu Thr Leu Val Gln 340 345 350

Asp Asp Lys His Phe His Lys Gly Phe Phe Thr Gln His Ala Val Gln 355 360 365

Val Phe Asn Ser Tyr Ile Gln Cys His Leu Ala Ala Pro Asp Gly Thr 370 375 380

Arg Asn Leu Thr Ala Asn Gly Val Ala Ser Arg Glu Glu Glu Glu Ile 385 390 395 400

Ser Glu Leu Gln Glu Asp Asp Arg Asp Gln Phe Ser Asp Gln Leu Ala 405 410 415

Ser Val Gly Met Leu Gly Arg Ile Ala Ala Glu His Cys Ile Pro Leu 420 425 430

Leu Thr Ser Leu Leu Glu Glu Arg Val Thr Arg Leu His Gly Gln Leu 435 440 445

Gln Arg His Gln Gln Gln Leu Leu Ala Ser Pro Gly Ser Ser Thr Val 450 455 460

Asp Asn Lys Met Leu Asp Asp Leu Tyr Glu Asp Ile His Trp Leu Ile 465 470 475 480

Leu Val Thr Gly Tyr Leu Leu Ala Asp Asp Thr Gln Gly Glu Thr Pro 485 490 495

Leu Ile Pro Pro Glu Ile Met Glu Tyr Ser Ile Lys His Ser Ser Glu 500 505 510

Val Asp Ile Asn Thr Thr Leu Gln Ile Leu Gly Ser Pro Gly Glu Lys 515 520 525

Ala Ser Ser Ile Pro Gly Tyr Asn Arg Thr Asp Ser Val Ile Arg Leu 530 535 540

Leu Ser Ala Ile Leu Arg Val Ser Glu Val Glu Ser Arg Ala Ile Arg 545 550 550 560

Ala Asp Leu Thr His Leu Leu Ser Pro Gln Met Gly Lys Asp Ile Val 565 570 570

Trp Phe Leu Lys Arg Trp Ala Lys Thr Tyr Leu Leu Val Asp Glu Lys 580 585

Leu Tyr Asp Gln Ile Ser Leu Pro Phe Ser Thr Ala Phe Gly Ala Asp 595 600 605

Thr Glu Gly Ser Gln Trp Ile Ile Gly Tyr Leu Leu Gln Lys Val Ile 610 615 620

Ser Asn Leu Ser Val Trp Ser Ser Glu Gln Asp Leu Ala Asn Asp Thr 625 630 640

Val Gln Leu Leu Val Thr Leu Val Glu Arg Arg Glu Arg Ala Asn Leu 645 650 655

Val Ile Gln Cys Glu Asn Trp Trp Asn Leu Ala Lys Gln Phe Ala Ser 660 665 670

Arg Ser Pro Pro Leu Asn Phe Leu Ser Ser Pro Val Gln Arg Thr Leu 675 680 685

Met Lys Ala Leu Val Leu Gly Gly Phe Ala His Met Asp Thr Glu Thr 690 695 700

Lys Gln Gln Tyr Trp Thr Glu Val Leu Gln Pro Leu Gln Gln Arg Phe

705 710 715 720

Leu Arg Val Ile Asn Gl
n Glu Asn Phe Gl
n Gln Met Cys Gl
n Gln Glu 735 $$ 735

Glu Val Lys Gln Glu Ile Thr Ala Thr Leu Glu Ala Leu Cys Gly Ile 740 745 750

Ala Glu Ala Thr Gln Ile Asp Asn Val Ala Ile Leu Phe Asn Phe Leu 755 760 765

Met Asp Phe Leu Thr Asn Cys Ile Gly Leu Met Glu Val Tyr Lys Asn 770 775 780

Thr Pro Glu Thr Val Asn Leu Ile Ile Glu Val Phe Val Glu Val Ala
785 790 795 800

His Lys Gln Ile Cys Tyr Leu Gly Glu Ser Lys Ala Met Asn Leu Tyr 805 810 815

Glu Ala Cys Leu Thr Leu Leu Gln Val Tyr Ser Lys Asn Asn Leu Gly 820 825 830

Arg Gln Arg Ile Asp Val Thr Ala Glu Glu Glu Gln Tyr Gln Asp Leu 835 840 845

Leu Leu Ile Met Glu Leu Leu Thr Asn Leu Leu Ser Lys Glu Phe Ile 850 855 860

Asp Phe Ser Asp Thr Asp Glu Val Phe Arg Gly His Glu Pro Gly Gln 865 870 875 880

Ala Ala Asn Arg Ser Val Ser Ala Ala Asp Val Val Leu Tyr Gly Val 885 890 895

Asn Leu Ile Leu Pro Leu Met Ser Gln Asp Leu Leu Lys Phe Pro Thr 900 905 910

Leu Cys Asn Gln Tyr Tyr Lys Leu Ile Thr Phe Ile Cys Glu Ile Phe 915 920 925

Pro Glu Lys Ile Pro Gln Leu Pro Glu Asp Leu Phe Lys Ser Leu Met 930 935 940

Tyr Ser Leu Glu Leu Gly Met Thr Ser Met Ser Ser Glu Val Cys Gln 945 950 955

Leu Cys Leu Glu Ala Leu Thr Pro Leu Ala Glu Gln Cys Ala Lys Ala 965 970

Gln Glu Thr Asp Ser Pro Leu Phe Leu Ala Thr Arg His Phe Leu Lys 980 985

Leu Val Phe Asp Met Leu Val Leu Gln Lys His Asn Thr Glu Met Thr 1000

Thr Ala Ala Gly Glu Ala Phe Tyr Thr Leu Val Cys Leu His Gln 1015 1020

Ala Glu Tyr Ser Glu Leu Val Glu Thr Leu Leu Ser Ser Gln Gln 1025 1030

Asp Pro Val Ile Tyr Gln Arg Leu Ala Asp Ala Phe Asn Lys Leu 1040 1045

Thr Ala Ser Ser Thr Pro Pro Thr Leu Asp Arg Lys Gln Lys Met 1055 1060 1065

Ala Phe Leu Lys Ser Leu Glu Glu Phe Met Ala Asn Val Gly Gly 1070 1075

Leu Leu Cys Val Lys 1085

<210> 256 <211> 78 <212> PRT

<213> Homo sapien

<400> 256

Met Val Leu Met Thr Ser Ser Gly Gln Pro Ser Cys Pro Gly Ile Met 5

Ala Cys Gln His Ser Leu Cys Pro Pro Asn Leu Arg Pro Arg Met Arg

Ser Cys Gln His Asn Ile His Pro Phe Glu Gln Met Glu Ser Gly Thr 3.5 40

Leu Thr Gln Pro Ser Val Leu Asn Asn Thr Ala Ile Ile Ala Thr Trp 50 55 60

Leu Ser Arg Gln Cys Lys Pro Ser Glu Ser Ala Glu Leu Phe 65 70 75

<210> 257

<211> 595

<212> PRT

<213> Homo sapien

<400> 257

Val Gln Lys Thr Asn Gln Cys Leu Gln Gly Gln Ser Leu Lys Thr Ser 1 5 10 15

Leu Thr Leu Lys Val Asp Arg Gly Ser Glu Glu Thr Tyr Arg Pro Glu 20 25 30

Phe Pro Ser Thr Lys Gly Leu Val Arg Ser Leu Ala Glu Gln Phe Gln 35 40 45

Arg Met Gln Gly Val Ser Met Arg Asp Ser Thr Gly Phe Lys Asp Arg 50 55 60

Ser Leu Ser Gly Ser Leu Arg Lys Asn Ser Ser Pro Ser Asp Ser Lys 65 70 75 80

Pro Pro Phe Ser Gln Gly Gln Glu Lys Gly His Trp Pro Trp Ala Lys 85 90 95

Gln Gln Ser Ser Leu Glu Gly Gly Asp Arg Pro Leu Ser Trp Glu Glu
100 105 110

Ser Thr Glu His Ser Ser Leu Ala Leu Asn Ser Gly Leu Pro Asn Gly 115 120 125

Glu Thr Ser Ser Gly Gly Gln Pro Arg Leu Ala Glu Pro Asp Ile Tyr 130 135 140

Ser Ser Thr Asp Leu Gly Thr Ser Leu Pro Leu Asp Ser Trp Val Asn 165 170 175

Ile Thr Arg Phe Cys Asp Ser Gln Leu Lys His Gly Ala Pro Arg Pro 180 185 190

Gly Met Lys Ser Ser Pro His Asp Ser His Thr Cys Val Thr Tyr Pro 195 200 205

Glu Arg Asn His Ile Leu Leu His Pro His Trp Asn Gln Asp Thr Glu 210 215 220

Gln Glu Thr Ser Glu Leu Glu Ser Leu Tyr Gln Ala Ser Leu Gln Ala 225 230 235 240

Ser Gln Ala Gly Cys Ser Gly Trp Gly Gln Gln Asp Thr Ala Trp His 245 250 255

Pro Leu Ser Gln Thr Gly Ser Ala Asp Gly Met Gly Arg Arg Leu His 260 265 270

Ser Ala His Asp Pro Gly Leu Ser Lys Thr Ser Thr Ala Glu Met Glu 275 280 285

His Gly Leu His Glu Ala Arg Thr Val Arg Thr Ser Gln Ala Thr Pro 290 295 300

Cys Arg Gly Leu Ser Arg Glu Cys Gly Glu Asp Glu Gln Tyr Ser Ala 305 310 315 320

Glu Asn Leu Arg Arg Ile Ser Arg Ser Leu Ser Gly Thr Val Val Ser 325 330 335

Glu Arg Glu Glu Ala Pro Val Ser Ser His Ser Phe Asp Ser Ser Asn 340 345 350

Val Arg Lys Pro Leu Glu Thr Gly His Arg Cys Ser Ser Ser Ser Ser 355 360 365

Leu Pro Val Ile His Asp Pro Ser Val Phe Leu Leu Gly Pro Gln Leu 370 375 380

Tyr Leu Pro Gln Pro Gln Phe Leu Ser Pro Asp Val Leu Met Pro Thr 385 390 395 400

Met Ala Gly Glu Pro Asn Arg Leu Pro Gly Thr Ser Arg Ser Val Gln 405 410 415

Gln Phe Leu Ala Met Cys Asp Arg Gly Glu Thr Ser Gln Gly Ala Lys 420 425 430

Tyr Thr Gly Arg Thr Leu Asn Tyr Gln Ser Leu Pro His Arg Ser Arg 435 440 445

Thr Asp Asn Ser Trp Ala Pro Trp Ser Glu Thr Asn Gln His Ile Gly
450 455 460

Thr Arg Phe Leu Thr Thr Pro Gly Cys Asn Pro Gln Leu Thr Tyr Thr 465 470 470 480

Ala Thr Leu Pro Glu Arg Ser Lys Gly Leu Gln Val Pro His Thr Gln 485 490 495

Ser Trp Ser Asp Leu Phe His Ser Pro Ser His Pro Pro Ile Val His 500 505 510

Pro Val Tyr Pro Pro Ser Ser Ser Leu His Val Pro Leu Arg Ser Ala 515 520 525

Trp Asn Ser Asp Pro Val Pro Gly Ser Arg Thr Pro Gly Pro Arg Arg 530 540

Val Asp Met Pro Pro Asp Asp Asp Trp Arg Gln Ser Ser Tyr Ala Ser 545 550 555 560

His Ser Gly His Arg Arg Thr Val Gly Glu Gly Phe Leu Phe Val Leu 565 570 575

Ser Asp Ala Pro Arg Arg Glu Gln Ile Arg Ala Arg Val Leu Gln His 580 585 590

Ser Gln Trp 595

<210> 258

<211> 55

<212> PRT

<213> Homo sapien

<400> 258

Met Thr Val Met Ile Leu Leu Phe Lys Lys Asn Pro Asn Cys Tyr Phe 1 5 10 15

Asp Leu Tyr Asp Leu Thr Leu Asn His Gly Ser Ile Thr Met Met Phe 25

Lys Thr Leu Ile Asp Ser Thr Cys Phe Lys Asn Ser Gln Ile Pro Ser 40 45

Ala Phe Ile Ile Arg Asp Arg

<210> 259

<211> 43 <212> PRT

<213> Homo sapien

<400> 259

Met Met Leu Thr Met Glu Phe Lys Asn Lys Gln Gln His Phe Val Val

Ser Thr Gly Val Gly Val Glu Glu Leu Gln Arg His His Gly Asn Lys 25

Ser Leu Pro Arg Ile Ser Gly Pro Arg Asn Leu 35 4.0

<210> 260 <211> 75 <212> PRT

<213> Homo sapien

<400> 260

Met Ala Tyr Arg Met Lys Arg Gly Thr Arg Asn Pro Cys Gly Arg Gly 1 5

Leu Asp Leu Lys Gln Cys Pro Leu Trp Leu Leu Pro Trp Leu Thr 25 3.0

Gly Phe Leu Asp His Val His Phe Thr Gly Pro Trp Asp Leu His Leu 35

Leu Ala Ser Pro Ala Gly Leu Ile Pro Ala Arg Ala Pro Ser Phe Leu 50

Leu Met Val Phe Arg Trp Pro Asp His Gly Lys 70

<210> 261 <211> 218

<212> PRT

<213> Homo sapien

<400> 261

Met Ile Asn His Leu Ser Pro His Gln Ala Ala Pro Val Asp Gln

Thr Pro Arg Thr Leu Ala Thr Met Gly Gln Arg Ala Leu Pro Ser Ser 25

Leu Ala Leu Leu Ser Arg Pro Leu Ser Pro Pro Pro Ala Ala Cys Ser 40

Gly Asp Pro Gly Cys Gly Ser Gly Ala Gly Leu Pro Ser Ala Ser Ala

Ala Ala Gly Ile Ala Ser Ser Ala Val Glu Ala Val Cys Gly Asp Ala

Ala Pro Ala Cys Leu Leu Arg Thr Pro Leu Arg Gly Leu Leu Lys Pro 85

Thr Gly Pro Arg Ser Thr Met Glu Cys Pro Pro Ala Leu Ile Val Gln

Pro Pro Ala Gly Gly Met Ala Arg Arg Ala Ala Ser Gln Pro Trp Ala 120

Ala Ala Ser Ala Thr Pro Met Leu Ser Ser Lys Ala Ser Leu Cys Ile 130 135

Pro Thr Glu Arg Pro Pro Pro Gln Pro Leu Met Arg Thr Pro Ala Ala 150 145

Arg Ser His Trp Pro Ile Pro His Pro Ala Ser Thr Ala Cys Pro Ala 165

Pro Leu Pro Val Val Leu Val Ala Pro Arg Ser Thr Ile Leu Ser Met 180

Ser Arg Thr Trp Thr Cys Arg Arg Trp Ala Val Ala Pro Cys Arg Ala 200 205 195

° Glu Lys Leu Met Cys Ser Ser Ser Arg Ser 210 215

<210> 262

<211> 104

<212> PRT

<213> Homo sapien

<400> 262

Met Pro Ser Phe Phe Cys Phe Ser Ile Ser Leu Ile Arg Asp Trp Lys 1 $$ 5 $$ 10 $$ 15

Val Ser Ile Arg Ser Asn Thr Asp Phe Ile Val Ile Gly Thr Asn Cys 20 25 30

Ser Pro Thr Thr Pro Tyr Ser Ala Ser Ser Ile Thr Leu Leu Cys Glu 35 40 45

Ile Leu Arg Asn Gly Leu Pro Leu Gln Gly Leu Asn Leu Pro Tyr Leu 50 55 60

Arg Phe Glu Ser Ser Val Leu Phe Cys Ile Cys Phe Lys Tyr Leu Gly 65 70 75 80

Ser Val Thr His Ala Asn Met Thr Cys Pro Val Gln Ala Thr Leu Gly
85 90 95

Ile His Ile Ser His Val Ser Ser

<210> 263

<211> 260

<212> PRT

<213> Homo sapien

<400> 263

Glu Lys Lys Lys Met Lys Asn Glu Asn Ala Asp Lys Leu Leu Lys 1 $$ 10 $$ 15

Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser Lys Gln Glu Lys 20 25 30

Glu Lys Ser Lys Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr 35 40 45

Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val

60

50 55

Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg Leu Leu Leu Ile 65 70 75 80

Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu 85 90 95

Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile 100 105 110

Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys Ile Asp His Phe 115 120 125

Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu 130 135 140

Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr 145 150 155 160

Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp Leu Arg Val Lys 165 170 175

Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile 180 185 190

Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys Gln Lys Lys Glu 195 200 205

Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu Glu Asn Phe Leu 210 215 220

Ser Arg Phe Arg Trp Arg Arg Leu Leu Val Ile Ser Ala Pro Asn 225 230 235 240

Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala Leu Ser Gly Gln 245 250 255

Ala Cys Thr Leu 260

<210> 264

<211> 62

<212> PRT

<213> Homo sapien

<400> 264

Met Ser Gly Phe Ile Tyr Val Leu Glu Lys Asp His Leu Lys Lys Ile 10

Asn Thr Phe Ser Thr Thr Lys Lys Lys Lys Lys Lys Lys Lys Lys

Arg Arg Gly Glu Pro Gly Ala Gln Ser Gly Pro Arg Gly Ala Asn

Trp Val Leu Pro Ala His Ile Pro Pro Lys Tyr Trp His Thr 50 55 60

<210> 265

<211> 89 <212> PRT <213> Homo sapien

<400> 265

Met Leu Gln Leu Asn Thr Arg Phe Tyr Phe Leu Ser Asn Cys Gly Phe

Val Phe Ile Tyr His Pro Leu Phe Ile Pro Phe Leu Thr His Thr Leu 25

Cys Arg Ala Ser Gly Ile Tyr Tyr Ser Thr Val Cys Leu Cys Lys Arg 35

Leu Ser Val Leu Ala Ser Thr Tyr Glu Arg Met His Ala Lys Phe Cys

Leu Ser Met Pro Gly Leu Ile Ser Leu Lys Gln Asn Asp Leu Arg Val 70

Pro Ser Met Leu Phe Ile Leu Pro Asn 85

<210> 266

<211> 38

<212> PRT

<213> Homo sapien

<400> 266

Met Thr Ser Arg Trp Leu Asn Phe Ser Cys Leu Trp Cys Phe Gly Pro 10

Asn Ser Thr Gly Gln His His Asp His Met Glu Thr Tyr Phe Trp Lys 25

Gln Asn Phe Asn Phe Ile 35

<210> 267

<211> 111

<212> PRT <213> Homo sapien

<400> 267

Asn Asp Leu Asp Arg Tyr Asn Pro Leu Ser Ser Gln Arg Leu Val Arg 1 5

Asn Ala Leu Ala His Val Gly Ala Lys Glu Arg Glu Leu Ser Trp Ala

His Ser Glu Ser Phe Ala Ala Leu Cys Arg Tyr Gly Lys Arg Glu Phe

Lys Ile Gly Gly Glu Leu Arg Ile Gly Lys Gln Pro Tyr Arg Leu Gln

Ile Gln Leu Ser Ala Gln Arg Ser His Thr Leu Glu Phe Gln Ser Leu 70 75

Glu Asp Leu Ile Met Gly Glu Ala Thr Gln Arg Pro Arg Ser Gly Ala

Arg Pro Val Leu Gln Glu Leu Ala Thr His Leu His Pro Ala Glu 100

<210> 268

<211> 60 <212> PRT <213> Homo sapien

<400> 268

Met Val Asn Thr Val Leu Leu Ser Leu Lys Ile Ser Leu Phe Cys Pro

His Gln Leu Phe Tyr Cys Ser Val Leu Arg Lys Pro Asn Ser Cys Val

Phe Phe Pro Ser Leu Leu Ile Leu Ser Cys Val Pro Ser Gly Lys Cys 35 40 45

His Tyr Phe Leu Asp Ile Leu Asn Leu Leu Phe Leu 50 55 60

<210> 269

<211> 72

<212> PRT

<213> Homo sapien

<400> 269

Met Cys Leu Cys Ile Leu Val Ser Lys Leu Arg Thr Ser Asp Glu Leu 1 5 10 15

Pro Val Val Pro Ser Tyr Cys Arg Arg Leu Glu Val Arg Gly Ile Ser 20 25 30

Ala Ser Thr Arg Glu Ala Glu Val Ala Ser Glu Pro Thr Ile Met Thr 35 40 45

Ala Cys Thr Pro Ser Leu Ala Thr Val Arg Glu Leu Leu Ser Gln Ile 50 55 60

Lys Arg Lys Gln Ser Leu Leu Ser 65 70

<210> 270

<211> 152

<212> PRT

<213> Homo sapien

<400> 270

Gly Ser Leu Gly Gly Glu Pro Gly Val Ser Cys Leu Lys Met His Ser 1 5 10 15

Asp Ala Ala Val Asn Phe Gln Leu Asn Ser His Leu Ser Thr Leu 20 25 30

Ala Asn Ile His Lys Ile Tyr His Thr Leu Asn Lys Leu Asn Leu Thr 35 40 45

Glu Asp Ile Gly Gln Asp Asp His Gln Thr Gly Ser Leu Arg Ser Cys
50 60

Ser Ser Ser Asp Cys Phe Asn Lys Val Met Pro Pro Arg Lys Lys Arg

Arg Pro Ala Ser Gly Asp Asp Leu Ser Ala Lys Lys Ser Arg His Asp 85 90

Ser Met Tyr Arg Lys Tyr Asp Ser Thr Arg Ile Lys Thr Glu Glu Glu 100 105

Ala Phe Ser Ser Lys Arg Cys Leu Glu Trp Phe Tyr Glu Tyr Ala Gly

Thr Asp Asp Val Val Gly Pro Glu Gly Met Glu Lys Phe Cys Glu Asp 135 140

Ile Gly Val Glu Pro Glu Asn Val

<210> 271

<211> 52

<212> PRT <213> Homo sapien

<400> 271

Met Glu Pro His Ile Met Lys Phe Asn Ser His Val Lys Thr Phe Cys

Ile Val Gly Cys Gln Lys Tyr Leu Pro Lys Leu Ser Phe Asp Leu Ser 25

Glu Trp Gly Trp Leu Leu Pro Ile Leu Gln Phe Val Ser Gln Ala Trp

Arg Asn Gln Ala 50

<210> 272

<211> 449

<212> PRT

<213> Homo sapien

<400> 272

Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val 5

Arg Gln Tyr Tyr Thr Leu Leu Asn Lys Ala Pro Glu Tyr Leu His Arg

199

20 25

Phe Tyr Gly Arg Asn Ser Ser Tyr Val His Gly Gly Val Asp Ala Ser 35 40 45

Gly Lys Pro Gln Glu Ala Val Tyr Gly Gln Asn Asp Ile His His Lys 50 55 60

Val Leu Ser Leu Asn Phe Ser Glu Cys His Thr Lys Ile Arg His Val 65 70 75 80

Asp Ala His Ala Thr Leu Ser Asp Gly Val Val Val Gln Val Met Gly 85 90 95

Leu Leu Ser Asn Ser Gly Gln Pro Glu Arg Lys Phe Met Gln Thr Phe 100 105 110

Val Leu Ala Pro Glu Gly Ser Val Pro Asn Lys Phe Tyr Val His Asn 115 120 125

Asp Met Phe Arg Tyr Glu Asp Glu Val Phe Gly Asp Ser Glu Pro Glu 130 135 140

Leu Asp Glu Glu Ser Glu Asp Glu Val Glu Glu Glu Glu Glu Glu Arg
145 150 150 155 160

Gln Pro Ser Pro Glu Pro Val Gln Glu Asn Ala Asn Ser Gly Tyr Tyr 165 170 175

Glu Ala His Pro Val Thr Asn Gly Ile Glu Glu Pro Leu Glu Glu Ser 180 185 190

Ser His Glu Pro Glu Pro Glu Ser Glu Thr Lys Thr Glu Glu 195 200 205

Leu Lys Pro Gln Val Glu Glu Lys Asn Leu Glu Glu Leu Glu Glu Lys 210 215 220

Ser Thr Thr Pro Pro Pro Ala Glu Pro Val Ser Leu Pro Gln Glu Pro 225 230 235 240

Pro Lys Pro Arg Val Glu Ala Lys Pro Glu Val Gln Ser Gln Pro Pro 245 250 255

Arg Val Arg Glu Gln Arg Pro Arg Glu Arg Pro Gly Phe Pro Pro Arg 260 265 270

Gly Pro Arg Pro Gly Arg Gly Asp Met Glu Gln Asn Asp Ser Asp Asn 275 280 285

Arg Ile Ile Arg Tyr Pro Asp Ser His Gln Leu Phe Val Gly Asn 290 295 300

Leu Pro His Asp Ile Asp Glu Asn Glu Leu Lys Glu Phe Phe Met Ser 305 310 315 320

Phe Gly Asn Val Val Glu Leu Arg Ile Asn Thr Lys Gly Val Gly Gly 325 330330

Lys Leu Pro Asn Phe Gly Phe Val Val Phe Asp Asp Ser Glu Pro Val 340 345 350

Gln Arg Ile Leu Ile Ala Lys Pro Ile Met Phe Arg Gly Glu Val Arg 355 \$360\$

Leu Asn Val Glu Glu Lys Lys Thr Arg Ala Ala Arg Glu Arg Glu Thr 370 375 380

Arg Gly Gly Asp Asp Arg Arg Asp Ile Arg Arg Asn Asp Arg Gly 385 390 395 400

Pro Gly Gly Pro Arg Gly Ile Val Gly Gly Gly Met Met Arg Asp Arg 405 410 415

Arg

<210> 273

<211> 63

<212> PRT

<213> Homo sapien

<400> 273

Met Cys Cys Asp Val Ser Glu Arg Ala Glu Phe Arg Leu Val Ser Ala

Arg Cys Ser Phe Ser His Pro Arg Thr Val Ala Arg Leu Leu Leu Arg.

His Pro Gly Gln Leu Pro Leu Pro Phe Gln Trp Gly Leu Thr Trp Leu

Pro Ser Leu Ala Ala Asn Arg Arg Ala Pro Gln His Ser Arg Ser

<210> 274

<211> 60

<212> PRT

<213> Homo sapien

<400> 274

Met Asp Pro Gly Arg Tyr Cys Leu Val Leu Gln Glu Leu Met Gln Phe

His Ser Glu Ala Cys Lys Ile Leu Asn Phe Arg Asp Asn Arg Pro Asp 25

Thr Phe Leu Ile Ser Phe Tyr Ser Leu Met Ser Asn Asn Thr Ile Phe

Lys Asn Met Val Leu Ile Cys Leu Ala Ser Asn Leu 55

<210> 275 <211> 111 <212> PRT

<213> Homo sapien

<400> 275

Lys Leu Ile Val Tyr Pro Pro Pro Pro Ala Lys Gly Gly Ile Ser Val

Thr Asn Glu Asp Leu His Cys Leu Asn Glu Gly Glu Phe Leu Asn Asp

Val Ile Ile Asp Phe Tyr Leu Lys Tyr Leu Val Leu Glu Lys Leu Lys 40

Lys Glu Asp Ala Asp Arg Ile His Ile Phe Ser Ser Phe Phe Tyr Lys

55

60

Arg Leu Asn Gln Arg Glu Arg Arg Asn His Glu Thr Thr Asn Leu Ser 65 70 75 80

Ile Gln Gln Lys Arg His Gly Arg Val Lys Thr Trp Thr Arg His Val 85 90 95

Asp Ile Phe Glu Lys Asp Phe Ile Phe Val Pro Leu Asn Glu Ala 100 \$105

<210> 276

50

<211> 97

<212> PRT

<213> Homo sapien

<400> 276

Met Ser Gln Asp Thr Ser Arg Ser Gln Glu Arg Ala Ala Gly Pro Gln 1 5 10 15

Arg Thr Arg Arg Arg Pro Arg Thr Trp Ser Gly Gly Val Glu Pro Thr 20 25 30

Ala Ala Ala Pro Trp Ala Ala Ala Met Ala His Thr Gly Arg His Gly 35 40 45

Arg Arg Gly Ala Ala Arg Gly Thr Asp Ala Ala Glu Arg Arg Ala 65 70 75 80

Ala Ser Arg Gly Ala Ala Glu Pro Lys Ala Thr Ala Ser Gly Gly
85
90
95

Gly

<210> 277

<211> 76

<212> PRT

<213> Homo sapien

<400> 277

Met Gly Ser Cys Pro Leu Trp Val Arg Ser Ser Thr Cys Arg Val Glu
1 10 15

Val Gly Tyr Val His Thr Phe Asn Asp Asn Leu His Ile Ser Ala Pro $20 \\ 25 \\ 30$

Thr Gly Pro Lys Leu Phe Leu Gly Phe Lys Val Val Cys Leu Phe 35 40 45

Phe Ser Phe Phe Phe Phe Phe Phe Phe Gly Glu Val Glu Phe Gly 50 60

Ser Gly Trp Pro Arg Cys Gly Val Cys Lys Gly Arg 65 70 75

<210> 278

<211> 20

<212> PRT

<213> Homo sapien

<400> 278

Met Glu Asp Gln Ile Ile Leu Asn Tyr Ile Ser Ile Val Pro Gly Lys 1 $$ 5 $$ 10 $$ 15

Thr Gln Val Leu 20

<210> 279

<211> 24

<212> PRT

<213> Homo sapien

<400> 279

Met Val His Leu Met His Ala Arg Ala Arg Ala Ser Cys Asp Gly Cys 1 5 10 15

Val Val Ala Ala Glu Val His Val

<210> 280

<211> 101

<212> PRT

<213> Homo sapien

<400> 280

Leu Phe Phe Phe Lys Lys Phe Ile Leu Arg Trp Ser Leu Thr Leu Ser 1 5 10 15

Leu Arg Leu Glu Cys Ser Asp Ser Ile Ser Ala His Cys Asn Leu Arg
20 25 30

Leu Pro Gly Leu Ser Asn Phe Cys Ala Ser Ala Ser Gln Val Ser Glu 35 40 45

Ile Thr Gly Val Cys His His Thr Gln Leu Phe Phe Ile Phe Tyr Phe 50 60

Ala Ala Lys Met Gly Phe Arg His Val Gly Arg Thr Gly Leu Glu Leu 65 70 75 80

Leu Ala Ser Ser Gly Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile 85 90 95

Thr Gly Val Ser His 100

<210> 281

<211> 43

<212> PRT

<213> Homo sapien

<400> 281

Met Trp Gly His Gly Leu Asp Asp Gly Leu His Arg Ser Phe His Leu 1 5 10 15

Cys Glu Ser Lys Ser Gly Gln Ser Ala Arg Thr Gln Ser Leu Thr Leu 20 25 30

Gly Gln Leu Leu Arg Thr Asn Pro Gln His Leu 35 40

<210> 282

<211> 46

<212> PRT

<213> Homo sapien

<400> 282

Met Ala Gly Asn Ile His Pro Gly Thr Phe Gly Pro Gly Ser Pro His 1 5 10 15

Leu Phe Phe Leu Cys Gly Val Val Ala Phe Phe Leu Phe Ile Val Ala
20 25 30

Arg Glu Ala Lys Ile Tyr Ser Phe Ser Met Asn Pro Asn Met

35 40 45

<210> 283

<211> 70

<212> PRT <213> Homo sapien

<400> 283

Met Pro Gly Ser His Leu Cys Met Phe Asn Thr Val Thr His Asp Val

Ile Thr Glu Trp Arg Arg Trp Lys Gly Pro Cys Arg Ser Phe Ser Trp 25

His Pro Asn Phe Thr Glu Gly Glu Leu Arg Pro Glu Leu Arg Asp Val

Leu Arg Ile Pro Glu Ser His Ser Ser Val Arg Ser Val Ile His Lys

Glu Val Ile Ile Lys Val

<210> 284

<211> 49

<212> PRT <213> Homo sapien

<400> 284

Met Ser Ser Leu Phe Ala Phe Leu Leu Thr Tyr Phe Val Val Phe

Lys Asp Cys Ala Gly Asp Ile Leu Glu Gly Ile Asn Gly Leu His Ser 20 25

Lys Arg Cys Gly Leu Ser Lys Leu Phe Ser Val Phe Ile Thr Glu Thr 35 40

Asp

<210> 285 <211> 1544 <212> PRT

<213> Homo sapien

<400> 285

Gly Asn Gly Arg Gly Val Val Gly Val Thr Phe Thr Ser Ser His Cys 50 60

Arg Arg Asp Arg Ser Thr Pro Gln Arg Ile Asn Phe Asn Leu Arg Gly 65 70 75 80

His Asn Ser Glu Val Val Leu Val Arg Trp Asn Glu Pro Tyr Gln Lys \$85\$ 90 95

Leu Ala Thr Cys Asp Ala Asp Gly Gly Ile Phe Val Trp Ile Gln Tyr 100 105 110

Glu Gly Arg Trp Ser Val Glu Leu Val Asn Asp Arg Gly Ala Gln Val 115 120 125

Ser Asp Phe Thr Trp Ser His Asp Gly Thr Gln Ala Leu Ile Ser Tyr 130 135 140

Arg Asp Gly Phe Val Leu Val Gly Ser Val Ser Gly Gln Arg His Trp 145 150 155 160

Ser Ser Glu Ile Asn Leu Glu Ser Gln Ile Thr Cys Gly Ile Trp Thr 165 170 175

Pro Asp Asp Gln Gln Val Leu Phe Gly Thr Ala Asp Gly Gln Val Ile 180 185 190

Val Met Asp Cys His Gly Arg Met Leu Ala His Val Leu Leu His Glu 195 200 205

Ser Asp Gly Val Leu Gly Met Ser Trp Asn Tyr Pro Ile Phe Leu Val 210 215 220

Glu Asp Ser Ser Glu Ser Asp Thr Asp Ser Asp Asp Tyr Ala Pro Pro 225 230 235 240

Gln Asp Gly Pro Ala Ala Tyr Pro Ile Pro Val Gln Asn Ile Lys Pro 245 250 255

Leu Leu Thr Val Ser Phe Thr Ser Gly Asp Ile Ser Leu Met Asn Asn 260 265 270

Tyr Asp Asp Leu Ser Pro Thr Val Ile Arg Ser Gly Leu Lys Glu Val 275 280 285

Val Ala Gln Trp Cys Thr Gln Gly Asp Leu Leu Ala Val Ala Gly Met 290 295 300

Glu Arg Gln Thr Gln Leu Gly Glu Leu Pro Asn Gly Pro Leu Leu Lys 305 310 315 320

Ser Ala Met Val Lys Phe Tyr Asn Val Arg Gly Glu His Ile Phe Thr 325 330 335

Leu Asp Thr Leu Val Gln Arg Pro Ile Ile Ser Ile Cys Trp Gly His 340 345 350

Arg Asp Ser Arg Leu Leu Met Ala Ser Gly Pro Ala Leu Tyr Val Val 355 360 365

Arg Val Glu His Arg Val Ser Ser Leu Gln Leu Cys Gln Gln Ala 370 375 380

Ile Ala Ser Thr Leu Arg Glu Asp Lys Asp Val Ser Lys Leu Thr Leu 385 390 395 400

Pro Pro Arg Leu Cys Ser Tyr Leu Ser Thr Ala Phe Ile Pro Thr Ile 405 410 415

Lys Pro Pro Ile Pro Asp Pro Asn Asn Met Arg Asp Phe Val Ser Tyr 420 425 430

Pro Ser Ala Gly Asn Glu Arg Leu His Cys Thr Met Lys Arg Thr Glu 435 440 445

Asp Asp Pro Glu Val Gly Gly Pro Cys Tyr Thr Leu Tyr Leu Glu Tyr 450 460

Leu Gly Gly Leu Val Pro Ile Leu Lys Gly Arg Arg Ile Ser Lys Leu

Arg Pro Glu Phe Val Ile Met Asp Pro Arg Thr Asp Ser Lys Pro Asp Glu Ile Tyr Gly Asn Ser Leu Ile Ser Thr Val Ile Asp Ser Cys Asn Cys Ser Asp Ser Ser Asp Ile Glu Leu Ser Asp Asp Trp Ala Ala Lys Lys Ser Pro Lys Ile Ser Arg Ala Ser Lys Ser Pro Lys Leu Pro Arg Ile Ser Ile Glu Ala Arg Lys Ser Pro Lys Leu Pro Arg Ala Ala Gln Glu Leu Ser Arg Ser Pro Arg Leu Pro Leu Arg Lys Pro Ser Val Gly Ser Pro Ser Leu Thr Arg Arg Glu Phe Pro Phe Glu Asp Ile Thr Gln His Asn Tyr Leu Ala Gln Val Thr Ser Asn Ile Trp Gly Thr Lys Phe Lys Ile Val Gly Leu Ala Ala Phe Leu Pro Thr Asn Leu Gly Ala Val Ile Tyr Lys Thr Ser Leu Leu His Leu Gln Pro Arq Gln Met Thr Ile Tyr Leu Pro Glu Val Arg Lys Ile Ser Met Asp Tyr Ile Asn Leu Pro Val Phe Asn Pro Asn Val Phe Ser Glu Asp Glu Asp Leu Pro Val Thr Gly Ala Ser Gly Val Pro Glu Asn Ser Pro Pro Cys Thr Val Asn Ile Pro Ile Ala Pro Ile His Ser Ser Ala Gln Ala Met Ser Pro Thr



Gln Ser Ile Gly Leu Val Gln Ser Leu Leu Ala Asn Gln Asn Val Gln 715 Leu Asp Val Leu Thr Asn Gln Thr Thr Ala Val Gly Thr Ala Glu His 725 730 Ala Gly Asp Arg Cys His Pro Val Thr Gln Val Ser Asn Arg Tyr Ser 745 Asn Pro Gly Gln Val Ile Phe Gly Ser Val Glu Met Gly Arg Ile Ile 760 Gln Asn Pro Pro Pro Leu Ser Leu Pro Pro Pro Gln Gly Pro Met 775 Gln Leu Ser Thr Val Gly His Gly Asp Arg Asp His Glu His Leu Gln 795 Lys Ser Ala Lys Ala Leu Arg Pro Thr Pro Gln Leu Ala Ala Glu Gly 805 810 Asp Ala Val Val Phe Ser Ala Pro Gln Glu Val Gln Val Thr Lys Ile 825 820 Asn Pro Pro Pro Tyr Pro Gly Thr Ile Pro Ala Ala Pro Thr Thr 835 840 Ala Ala Pro Pro Pro Pro Leu Pro Pro Pro Gln Pro Pro Val Asp Val 850 Cys Leu Lys Lys Gly Asp Phe Ser Leu Tyr Pro Thr Ser Val His Tyr Gln Thr Pro Leu Gly Tyr Glu Arg Ile Thr Thr Phe Asp Ser Ser Gly Asn Val Glu Glu Val Cys Arg Pro Arg Thr Arg Met Leu Cys Ser Gln 905 Asn Thr Tyr Thr Leu Pro Gly Pro Gly Ser Ser Ala Thr Leu Arg Leu 920

Thr Ala Thr Glu Lys Lys Val Pro Gln Pro Cys Ser Ser Ala Thr Leu

935

930

Asn Arg Leu Thr Val Pro Arg Tyr Ser Ile Pro Thr Gly Asp Pro Pro 945 950 955 960

Pro Tyr Pro Glu Ile Ala Ser Gln Leu Ala Gln Gly Arg Gly Ala Ala 965 970 975

Gln Arg Ser Asp Asn Ser Leu Ile His Ala Thr Leu Arg Arg Asn Asn 980 985 990

Arg Glu Ala Thr Leu Lys Met Ala Gln Leu Ala Asp Ser Pro Arg Ala 995 1000 1005

Pro Leu Gln Pro Leu Ala Lys Ser Lys Gly Gly Pro Gly Gly Val 1010 1015 1020

Val Thr Gln Leu Pro Ala Arg Pro Pro Pro Ala Leu Tyr Thr Cys 1025 $$ 1035 $$ 1035

Ser Gln Cys Ser Gly Thr Gly Pro Ser Ser Gln Pro Gly Ala Ser 1040 , 1045 1050

Leu Ala His Thr Ala Ser Ala Ser Pro Leu Ala Ser Gln Ser Ser 1055 1060 1065

Tyr Ser Leu Leu Ser Pro Pro Asp Ser Ala Arg Asp Arg Thr Asp 1070 1075 1080

Tyr Val Asn Ser Ala Phe Thr Glu Asp Glu Ala Leu Ser Gln His 1085 1090 1095

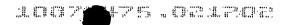
Cys Gln Leu Glu Lys Pro Leu Arg His Pro Pro Leu Pro Glu Ala 1100 1105 1110

Ala Val Thr Leu Lys Arg Pro Pro Pro Tyr Gln Trp Asp Pro Met 1115 1120 1125

Leu Gly Glu Asp Val Trp Val Pro Gln Glu Arg Thr Ala Gln Thr 1130 1135 1140

Ser Gly Pro Asn Pro Leu Lys Leu Ser Ser Leu Met Leu Ser Gln

Gly Gln His Leu Asp Val Ser Arg Leu Pro Phe Ile Ser Pro Lys 1160 1165 1170



Ser	Pro 1175	Ala	Ser	Pro	Thr	Ala 1180		Phe	Gln	Thr	Gly 1185	Tyr	Gly	Met
Gly	Val 1190	Pro	Tyr	Pro	Gly	Ser 1195		Asn	Asn	Pro	Pro 1200	Leu	Pro	Gly
Val	Gln 1205	Ala	Pro	Cys	Ser	Pro 1210		Asp	Ala	Leu	Ser 1215	Pro	Thr	Gln
Phe	Ala 1220	Gln	Gln	Glu	Pro	Ala 1225		Val	Leu	Gln	Pro 1230	Leu	Tyr	Pro
Pro	Ser 1235	Leu	Ser	Tyr	Cys	Thr 1240	Leu	Pro	Pro	Met	Tyr 1245	Pro	Gly	Ser
Ser	Thr 1250	Cys	Ser	Ser	Leu	Gln 1255	Leu	Pro	Pro	Val	Ala 1260	Leu	His	Pro
Trp	Ser 1265	Ser	Tyr	Ser	Ala	Cys 1270	Pro	Pro	Met	Gln	Asn 1275	Pro	Gln	Gly
Thr	Leu 1280	Pro	Pro	Lys	Pro	His 1285		Val	Val	Glu	Lys 1290	Pro	Leu	Val
Ser	Pro 1295	Pro	Pro	Ala	Asp	Leu 1300	Gln	Ser	His	Leu	Gly 1305	Thr	Glu	Val
Met	Val 1310	Glu	Thr	Ala	Asp	Asn 1315	Phe	Gln	Glu	Val	Leu 1320	Ser	Leu	Thr
Glu	Ser 1325	Pro	Val	Pro	Gln	Arg 1330		Glu	Lys	Phe	Gly 1335	Lys	Lys	Asn
Arg	Lys 1340	Arg	Leu	Asp	Ser	Arg 1345	Ala	Glu	Glu	Gly	Ser 1350	Val	Gln	Ala
Ile	Thr 1355	Glu	Gly	Lys	Val	Lys 1360	Lys	Glu	Ala	Arg	Thr 1365	Leu	Ser	Asp
Phe	Asn 1370	Ser	Leu	Ile	Ser	Ser 1375	Pro	His	Leu	Gly	Arg 1380	Glu	Lys	Lys
Lys	Val	Lys	Ser	Gln	Lys	Asp	Gln	Leu	Lys	Ser	Lys	Lys	Leu	Asn

)

1385 1390 1395

Lys Thr Asn Glu Phe Gln Asp Ser Ser Glu Ser Glu Pro Glu Leu 1400 1405 1410

Phe Ile Ser Gly Asp Glu Leu Met Asn Gln Ser Gln Gly Ser Arg 1415 1420 1425

Lys Gly \mbox{Trp} Lys \mbox{Ser} Lys \mbox{Arg} \mbox{Ser} Pro \mbox{Arg} Ala \mbox{Ala} \mbox{Gly} Glu \mbox{Leu} $\mbox{1430}$ $\mbox{1440}$

Glu Glu Ala Lys Cys Arg Arg Ala Ser Glu Lys Glu Asp Gly Arg 1445 1450 1455

Leu Gly Ser Gln Gly Phe Val Tyr Val Met Ala Asn Lys Gln Pro 1460 1465 1470

Leu Trp Asn Glu Ala Thr Gln Val Tyr Gln Leu Asp Phe Gly Gly 1475 $$ 1480 $$ 1485

Arg Val Thr Gln Glu Ser Ala Lys Asn Phe Gln Ile Glu Leu Glu 1490 1495 1500

Gly Arg Gln Val Met Gln Phe Gly Arg Ile Asp Gly Ser Ala Tyr 1505 1510 1515

Ile Leu Asp Phe Gln Tyr Pro Phe Ser Ala Val Gln Ala Phe Ala 1520 1525 1530

Val Ala Leu Ala Asn Val Thr Gln Arg Leu Lys 1535 1540

<210> 286

<211> 56

<212> PRT

<213> Homo sapien

<400> 286

Met Gly Asn Gly Ala Thr Gln Lys Gln Leu Pro Asn Leu Arg Asn Asn 1 5 10 15

Ser Phe Val Val Tyr Phe Leu Val Leu Val Gly Ala Leu Tyr Arg Asp 20 25 30

Thr Ala Ile Phe Leu Ala Gln Met Ser Leu Leu Glu Ser Thr Val Val

40

45

Ile Leu Leu Val Arg Leu Arg Thr

<210> 287 <211> 77 <212> PRT

<213> Homo sapien

35

<400> 287

Met Leu Leu Ala Val Arg Thr Thr Val Ile Cys Leu Gln Ser Cys Cys 10

Cys Arg Ile Gln Arg Thr Ala Thr Ile Thr Leu Asn Cys Phe Ala Leu 25

Ser Ser Ile Phe Asp Tyr Tyr Ile Ser His Asn Ile Thr Ile Ser His 40

Ser Ser Asn Tyr Ser Ala Gln Ile His Glu His Val Pro Ala Arg Ala

Ala Ala Arg Ser Ile Thr Trp Arg Arg Ser Ala Cys Ile

<210> 288 <211> 45

<212> PRT

<213> Homo sapien

<400> 288

Met Tyr Leu Gly Gln Leu Gly Asn His Arg Leu Lys Lys Leu Thr Leu 5 10

Val Ile Thr Arg Val Val Ser Asp Tyr Lys Gln His Ile Ile Asn Pro 20 25

Thr Ala Leu Ile Leu Ala Gln Arg Gln Asn Trp Thr Phe 40 35

<210> 289

<211> 44

<212> PRT <213> Homo sapien

<400> 289



Met Lys Ala Leu Leu Cys Phe Leu Phe Tyr Ser Asp His Gln Thr Asp 10

Leu Ala Thr Leu Ile Val Lys Asn Glu Pro His Ser Ser Pro Gly Leu 25

Gly Leu Trp Arg Glu Met Asn Phe Leu Leu Glu Met 40

<210> 290

<211> 50 <212> PRT

<213> Homo sapien

<400> 290

Met Phe Arg Thr Ser Ser Tyr Arg Leu Leu Ile Tyr Lys Val Pro Val

Ala Val Thr Pro Thr Arg Lys Thr Trp Asn Cys Lys Gln Ala Gly Val

Thr Ser Val Thr Ser Asp Thr Val Gln Pro Glu Val Arg Phe Leu Phe 35 40 45

Trp Gly 50

<210> 291

<211> 44

<212> PRT

<213> Homo sapien

<400> 291

Met Ser Gln Trp Pro Val Ala Ser Lys Leu Val Gly Lys Glu Lys Thr 5 1.0 1.5

Phe Leu Phe Lys Gln Arg Lys Gly Phe Gly Glu Lys Thr Gly Ser Gly

Ser Gly Glu Val Phe Val Met Leu Gly Asp Arg Leu

<210> 292

<211> 61

<212> PRT

<213> Homo sapien



<400> 292

Met Val His Tyr Arg Lys Glu Lys Lys Thr Ser Val Ser Glu Trp Gln 1 5 10 15

Ile Leu Ile Ile Cys Ser Ser His Leu Phe Ser Ser Glu Asn His Ile
20 25 30

Thr Pro Glu Tyr Leu Pro Gly Arg Ile His His Thr Ala Pro Leu Glu 35 40 45

Pro Ala Ser Lys Asp Pro Phe Ala His Ile Val Ile Leu 50 55 60

<210> 293

<211> 112

<212> PRT

<213> Homo sapien

<400> 293

Met Gly Ile Ile Leu Asn Trp Leu Asn Gln Trp Ala Gln Ile Thr Tyr 1 5 10 15

Leu Pro Ser Leu Leu Cys Asp Ser Pro Ala Val Thr His Thr Ile His 20 25 30

Ile Leu Cys Thr Ser Asn Glu Gln Thr Trp Phe Pro Cys Phe Leu Asp 35 40 45

Ile Ser Met Thr Val Ser His Thr Asn Tyr Trp Val Arg Phe Phe Ser 50 55 60

Cys Tyr Arg Pro Thr Ser Cys Cys Leu Cys Val Val Leu Gln Lys Leu 65 70 75 80

Ser Ile Pro Thr Pro Leu Leu Cys His Leu Gln Glu Ser Gly Ile Val 85 90 95

Arg Ser Gln Leu Arg Lys Val Leu Val Pro Leu Thr Gly His Ile Leu 100 105 110

<210> 294

<211> 55

<212> PRT

<213> Homo sapien



<400> 294

Met Arg Phe Ile Phe Ile Cys Lys Pro Arg Gly Leu Ile Ile Leu Ile

Leu Tyr Glu Tyr Thr Cys Val Leu Gly Lys Ala Phe Ile Gln Gln Met

Pro Thr Thr Tyr Ser Val Pro Arg Pro Arg His Pro Val Thr Ser Trp

Arg Pro Ala Arg Ala Cys Ile

<210> 295 <211> 77 <212> PRT

<213> Homo sapien

<400> 295

Met Leu Glu Leu Pro Thr Phe Ser Phe Phe Phe Gly Asp Arg Ala

Ser Leu Cys His Pro Gly Trp Ser Ala Gly Ala Ser Ser Leu Thr His

Leu Gln Pro Ser Phe Leu Pro Trp Gly Ala Gly Arg Phe Ser Cys Ala

Leu Gln Pro Pro Ser Leu Ala Gly Ile Tyr Arg Ala Leu Leu Gln Val

Ser His Ile Phe Ser Glu Lys Phe Leu Asn Trp Pro Pro 70